

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
2N7000	60	5	0.2	0.4	TO-92			Fairchild
2N7002	60	7.5	0.115	0.2	SOT-23			Fairchild
2SJ377	-60	0.19	-5		POWER MOLD	2SJ377	A	Toshiba
2SJ378	-60	0.19	-5		TPS	2SJ378	A	Toshiba
2SJ380	-100	0.21	-12		TO-220IS	2SJ380	A	Toshiba
2SJ401	-60	0.045	-20		TO-220FL/SM	2SJ401	A	Toshiba
2SJ402	-60	0.038	-30		TO-220FL/SM	2SJ402	A	Toshiba
2SJ407	-200	1	-6		TO-220IS	2SJ407	A	Toshiba
2SJ412	-100	0.21	-16		TO-220FL/SM	2SJ412	A	Toshiba
2SJ419	-12	0.082	-4		SOP-8(Single)			Sanyo
2SJ420	-12	0.063	-5		SOP-8(Single)			Sanyo
2SJ421	-30	0.058	-5		SOP-8(Single)	TPC8104-H	A	Sanyo
2SJ438	-60	0.19	-5		TO-220IS	2SJ438	A	Toshiba
2SJ439	-16	0.2	-5		POWER MOLD	2SJ439	A	Toshiba
2SJ464	-100	0.09	-18		TO-220IS	2SJ464	A	Toshiba
2SJ465	-16	0.71	-2		POWER-MINI	2SJ465	A	Toshiba
2SJ468	-30	0.1	-4		SOP-8(Single)	TPC8104-H	A	Sanyo
2SJ469	-30	0.075	-5		SOP-8(Single)	TPC8104-H	A	Sanyo
2SJ482	-60	0.19	-5		SP	2SJ482	A	Toshiba
2SJ507	-60	0.7	-1		TO-92MOD	2SJ507	A	Toshiba
2SJ508	-100	1.9	-1		POWER-MINI	2SJ508	A	Toshiba
2SJ509	-100	1.9	-1		TO-92MOD	2SJ509	A	Toshiba
2SJ511	-30	0.45	-2		POWER-MINI	2SJ511	A	Toshiba
2SJ512	-250	1.25	-5		TO-220IS	2SJ512	A	Toshiba
2SJ513	-200	0.5	-9.5		TO-220IS	2SJ513	A	Toshiba
2SJ514	-250	0.625	-7.5		TO-220IS	2SJ514	A	Toshiba
2SJ515	-200	0.64	-7		TO-220IS	2SJ515	A	Toshiba
2SJ516	-250	0.8	-6.5		TO-220IS	2SJ516	A	Toshiba
2SJ525	-30	0.12	-5		TPS	2SJ525	A	Toshiba
2SJ537	-50	0.19	-5		TO-92MOD	2SJ537	A	Toshiba
2SK1119	1000	3.8	4		TO-220AB	2SK1119	A	Toshiba
2SK1120	1000	1.8	8		TO-3P(N)	2SK1120	A	Toshiba
2SK1359	1000	3.8	5		TO-3P(N)	2SK1359	A	Toshiba
2SK1365	1000	1.8	7		TO-3P(N)IS	2SK1365	A	Toshiba
2SK1489	1000	1	12		TO-3P(L)	2SK1489	A	Toshiba
2SK1930	1000	3.8	4		TO-220FL/SM	2SK1930	A	Toshiba
2SK2173	60	0.017	50		TO-3P(N)	2SK2173	A	Toshiba
2SK2200	100	0.35	3		TPS	2SK2200	A	Toshiba
2SK2201	100	0.35	3		POWER MOLD	2SK2201	A	Toshiba
2SK2229	60	0.16	5		TPS	2SK2229	A	Toshiba
2SK2231	60	0.16	5		POWER MOLD	2SK2231	A	Toshiba
2SK2232	60	0.046	25		TO-220IS	2SK2232	A	Toshiba
2SK2233	60	0.03	45		TO-3P(N)	2SK2233	A	Toshiba
2SK2266	60	0.03	45		TO-220FL/SM	2SK2266	A	Toshiba
2SK2267	60	0.011	60		TO-3P(L)	2SK2267	A	Toshiba
2SK2274	700	1.7	5		TO-220IS	2SK2274	A	Toshiba
2SK2311	60	0.046	25		TO-220FL/SM	2SK2311	A	Toshiba
2SK2312	60	0.017	45		TO-220IS	2SK2312	A	Toshiba
2SK2313	60	0.011	60		TO-3P(N)	2SK2313	A	Toshiba
2SK2314	100	0.085	27		TO-220AB	2SK2314	A	Toshiba

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2SK2350	200	0.4	8.5		TO-220IS	2SK2350	A	Toshiba
2SK2376	60	0.017	45		TO-220FL/SM	2SK2376	A	Toshiba
2SK2381	200	0.8	5		TO-220IS	2SK2381	A	Toshiba
2SK2382	200	0.18	15		TO-220IS	2SK2382	A	Toshiba
2SK2385	60	0.03	36		TO-220IS	2SK2385	A	Toshiba
2SK2389	700	1.7	5		TO-220AB	2SK2389	A	Toshiba
2SK2391	100	0.085	20		TO-220IS	2SK2391	A	Toshiba
2SK2398	60	0.03	45		TO-3P(N)	2SK2233	A	Toshiba
2SK2399	100	0.23	5		POWER MOLD	2SK2399	A	Toshiba
2SK2400	100	0.23	5		TPS	2SK2400	A	Toshiba
2SK2401	200	0.18	15		TO-220FL/SM	2SK2401	A	Toshiba
2SK2417	250	0.5	7.5		TO-220IS	2SK2417	A	Toshiba
2SK2440	20	0.038	6		SOP-8(Single)	TPC8008	A	Sanyo
2SK2441	20	0.032	7		SOP-8(Single)	TPC8008	A	Sanyo
2SK2442	30	0.029	7		SOP-8(Single)	TPC8006-H	A	Sanyo
2SK2445	60	0.018	50		TO-3P(N)	2SK2445	A	Toshiba
2SK2466	100	0.046	30		TO-220IS	2SK2466	A	Toshiba
2SK2493	16	0.1	5		POWER MOLD	2SK2493	A	Toshiba
2SK2507	50	0.046	25		TO-220IS	2SK2507	A	Toshiba
2SK2508	250	0.25	13		TO-220IS	2SK2508	A	Toshiba
2SK2542	500	0.85	8		TO-220AB	2SK2542	A	Toshiba
2SK2543	500	0.85	8		TO-220IS	2SK2543	A	Toshiba
2SK2544	600	1.25	6		TO-220AB	2SK2544	A	Toshiba
2SK2545	600	1.25	6		TO-220IS	2SK2545	A	Toshiba
2SK2549	16	0.29	2		POWER-MINI	2SK2549	A	Toshiba
2SK2550	50	0.03	45		TO-3P(N)	2SK2550	A	Toshiba
2SK2551	50	0.011	50		TO-3P(N)	2SK2551	A	Toshiba
2SK2556	30	0.04	6		SOP-8(Single)	TPC8006-H	A	Sanyo
2SK2557	30	0.037	7		SOP-8(Single)	TPC8006-H	A	Sanyo
2SK2598	250	0.25	13		TO-220FL/SM	2SK2598	A	Toshiba
2SK2599	500	3	2		TPS	2SK2599	A	Toshiba
2SK2600	500	0.85	8		TO-3P(N)IS	2SK2600	A	Toshiba
2SK2601	500	1	10		TO-3P(N)	2SK2601	A	Toshiba
2SK2602	600	1.25	6		TO-3P(N)	2SK2602	A	Toshiba
2SK2603	800	3.6	3		TO-220AB	2SK2603	A	Toshiba
2SK2604	800	2.2	5		TO-3P(N)	2SK2604	A	Toshiba
2SK2605	800	2.2	5		TO-220IS	2SK2605	A	Toshiba
2SK2606	800	1.2	8.5		TO-3P(N)IS	2SK2606	A	Toshiba
2SK2607	800	1.2	9		TO-3P(N)	2SK2607	A	Toshiba
2SK2608	900	4.3	3		TO-220AB	2SK2608	A	Toshiba
2SK2610	900	2.5	5		TO-3P(N)	2SK2610	A	Toshiba
2SK2611	900	1.4	9		TO-3P(N)	2SK2611	A	Toshiba
2SK2613	1000	1.7	8		TO-3P(N)	2SK2613	A	Toshiba
2SK2614	50	0.046	20		DP	2SK2614	A	Toshiba
2SK2615	60	0.37	2		POWER-MINI	2SK2615	A	Toshiba
2SK2637	20	0.025	8		SOP-8(Single)	TPC8008	A	Sanyo
2SK2661	500	1.5	5		TO-220AB	2SK2661	A	Toshiba
2SK2662	500	1.5	5		TO-220IS	2SK2662	A	Toshiba
2SK2679	400	1.2	5.5		TO-220IS	2SK2679	A	Toshiba
2SK2698	500	0.4	15		TO-3P(N)	2SK2698	A	Toshiba

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2SK2699	600	0.65	12		TO-3P(N)	2SK2699	A	Toshiba
2SK2700	900	4.3	3		TO-220IS	2SK2700	A	Toshiba
2SK2717	900	2.5	5		TO-220IS	2SK2717	A	Toshiba
2SK2718	900	6.4	2.5		TO-220IS	2SK2718	A	Toshiba
2SK2719	900	4.3	3		TO-3P(N)	2SK2719	A	Toshiba
2SK2733	900	9	1		TO-220AB	2SK2733	A	Toshiba
2SK2741	60	0.16	5		SP	2SK2741	A	Toshiba
2SK2742	100	0.35	3		SP	2SK2742	A	Toshiba
2SK2744	50	0.02	45		TO-3P(N)	2SK2744	A	Toshiba
2SK2745	50	0.0095	50		TO-3P(N)	2SK2745	A	Toshiba
2SK2746	800	1.7	7		TO-3P(N)	2SK2746	A	Toshiba
2SK2749	900	2	7		TO-3P(N)	2SK2749	A	Toshiba
2SK2750	600	2.2	3.5		TO-220IS	2SK2750	A	Toshiba
2SK2776	500	0.85	8		TO-220FL/SM	2SK2776	A	Toshiba
2SK2777	600	1.25	6		TO-220FL/SM	2SK2777	A	Toshiba
2SK2782	60	0.055	20		DP	2SK2782	A	Toshiba
2SK2789	100	0.085	27		TO-220FL/SM	2SK2789	A	Toshiba
2SK2835	200	0.8	5		TPS	2SK2835	A	Toshiba
2SK2836	600	9	1		SP	2SK2836	A	Toshiba
2SK2837	500	0.27	20		TO-3P(N)	2SK2837	A	Toshiba
2SK2838	400	1.2	5.5		TO-220FL/SM	2SK2838	A	Toshiba
2SK2839	30	0.04	10		SP	2SK2839	A	Toshiba
2SK2840	250	1	4.5		TO-220IS	2SK2840	A	Toshiba
2SK2841	400	0.55	10		TO-220AB	2SK2841	A	Toshiba
2SK2842	500	0.52	12		TO-220IS	2SK2842	A	Toshiba
2SK2843	600	0.75	10		TO-220IS	2SK2843	A	Toshiba
2SK2844	30	0.02	35		TO-220AB	2SK2844	A	Toshiba
2SK2845	900	9	1		DP	2SK2845	A	Toshiba
2SK2846	600	5	2		TPS	2SK2846	A	Toshiba
2SK2847	900	1.4	8		TO-3P(N)IS	2SK2847	A	Toshiba
2SK2859	100	0.4	2		SOP-8(Single)			Sanyo
2SK2862	500	3	2		TO-220IS	2SK2862	A	Toshiba
2SK2865	600	5	2		POWER MOLD	2SK2865	A	Toshiba
2SK2866	600	0.75	10		TO-220AB	2SK2866	A	Toshiba
2SK2882	150	0.12	18		TO-220IS	2SK2882	A	Toshiba
2SK2883	800	3.6	3		TO-220FL/SM	2SK2883	A	Toshiba
2SK2884	800	2.2	5		TO-220FL/SM	2SK2884	A	Toshiba
2SK2886	50	0.02	45		TO-220IS	2SK2886	A	Toshiba
2SK2889	600	0.75	10		TO-220FL/SM	2SK2889	A	Toshiba
2SK2914	250	0.5	8.5		TO-220AB	2SK2914	A	Toshiba
2SK2915	600	0.4	16		TO-3P(N)	2SK2915	A	Toshiba
2SK2916	500	0.4	14		TO-3P(N)IS	2SK2916	A	Toshiba
2SK2917	500	0.27	18		TO-3P(N)IS	2SK2917	A	Toshiba
2SK2920	200	0.8	5		POWER MOLD	2SK2920	A	Toshiba
2SK2949	400	0.55	10		TO-220FL/SM	2SK2949	A	Toshiba
2SK2952	400	0.55	8.5		TO-220IS	2SK2952	A	Toshiba
2SK2953	600	0.4	15		TO-3P(N)IS	2SK2953	A	Toshiba
2SK2961	60	0.27	2		TO-92MOD	2SK2961	A	Toshiba
2SK2962	100	0.7	1		TO-92MOD	2SK2962	A	Toshiba
2SK2963	100	0.7	1		POWER-MINI	2SK2963	A	Toshiba

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2SK2964	30	0.17	2		POWER-MINI	2SK2964	A	Toshiba
2SK2965	200	0.26	11		TO-220IS	2SK2965	A	Toshiba
2SK2966	250	0.32	10		TO-220IS	2SK2966	A	Toshiba
2SK2967	250	0.07	30		TO-3P(N)	2SK2967	A	Toshiba
2SK2968	900	1.25	10		TO-3P(N)	2SK2968	A	Toshiba
2SK2985	60	0.0058	45		TO-220IS	2SK2985	A	Toshiba
2SK2986	60	0.0058	45		TO-220FL/SM	2SK2986	A	Toshiba
2SK2987	60	0.0058	70		TO-3P(N)	2SK2987	A	Toshiba
2SK2989	50	0.15	5		TO-92MOD	2SK2989	A	Toshiba
2SK2991	500	1.5	5		TO-220FL/SM	2SK2991	A	Toshiba
2SK2992	200	3.5	1		POWER-MINI	2SK2992	A	Toshiba
2SK2993	250	0.11	20		TO-220FL/SM	2SK2993	A	Toshiba
2SK2995	250	0.07	30		TO-3P(N)IS	2SK2995	A	Toshiba
2SK2996	600	1	10		TO-220IS	2SK2996	A	Toshiba
2SK2997	800	8	1.5		DP	2SK2997	A	Toshiba
2SK2998	500	18	0.5		TO-92MOD	2SK2998	A	Toshiba
2SK3017	900	1.25	8		TO-3P(N)IS	2SK3017	A	Toshiba
2SK3051	60	0.03	45		TO-220FL/SM	2SK2266	A	Toshiba
2SK3067	600	5	2		TO-220IS	2SK3067	A	Toshiba
2SK3068	500	0.52	12		TO-220FL/SM	2SK3068	A	Toshiba
2SK3085	600	2.2	3.5		TO-220AB	2SK3085	A	Toshiba
2SK3088	900	4.3	3		TO-220FL/SM	2SK3088	A	Toshiba
2SK3089	30	0.03	40		TO-220FL/SM	2SK3089	A	Toshiba
2SK3090	30	0.02	45		TO-220FL/SM	2SK3090	A	Toshiba
2SK3117	500	0.27	20		TO-3P(SM)	2SK3117	A	Toshiba
2SK3125	30	0.007	60		TO-3P(SM)	2SK3125	A	Toshiba
2SK3126	450	0.65	10		TO-220IS	2SK3126	A	Toshiba
2SK3127	30	0.011	45		TO-220FL/SM	2SK3127	A	Toshiba
2SK3128	30	0.011	60		TO-3P(N)	2SK3128	A	Toshiba
2SK3176	200	0.052	30		TO-3P(N)	2SK3176	A	Toshiba
BS107	200	26	0.13		TO-92			Siemens
BS170	60	5	0.5	0.83	TO-92			Fairchild
BS170	60	5	0.3		TO-92			Siemens
BS270	60	2	0.4	0.625	TO-92			Fairchild
BSO307N	30	0.075	4.2		SOP-8(Single)	TPC8004	A	Siemens
BSO615N	60	0.15	2.6		SOP-8(Single)			Siemens
BSO615NV	60	0.12	3.1		SOP-8(Single)			Siemens
BSP123	100	6.00	0.38	1.7	SOT223			Siemens
BSP125	600	45.00	0.11	1.5	SOT223	2SK2836	A	Siemens
BSP129	240	20.00	0.19	1.5	SOT223	2SK2836	A	Siemens
BSP135	600	60.00	0.1	1.5	SOT223	2SK2836	A	Siemens
BSP149	200	3.50	0.44	1.5	SOT223			Siemens
BSP17	50	0.10	2.9	1.5	SOT223	2SK2741	A	Siemens
BSP170	-60	0.35	1.7		SOT-223	2SJ482	A	Siemens
BSP171	-60	0.35	1.7	1.5	SOT223	2SJ482	A	Siemens
BSP295	50	0.30	1.7	1.5	SOT223	2SK2741	A	Siemens
BSP296	100	0.80	1	1.5	SOT223	2SK2742	A	Siemens
BSP297	200	2.00	0.6	1.5	SOT223			Siemens
BSP298	400	3.00	0.45	1.5	SOT223			Siemens
BSP299	500	4.00	0.4	1.5	SOT223			Siemens

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BSP300	800	20	0.19		SOT-223			Siemens
BSP315	-50	0.80	1	1.5	SOT223			Siemens
BSP316	-100	2.20	0.6	1.5	SOT223	2SJ508	B	Siemens
BSP317	-200	6.00	0.34	1.5	SOT223			Siemens
BSP318	60	0.15	2.4	1.5	SOT223	2SK2741	A	Siemens
BSP318S	60	0.15	2.6		SOT-223	2SK2741	A	Siemens
BSP319	50	0.07	3.8	1.5	SOT223	2SK2741	A	Siemens
BSP320S	60	0.12	2.9		SOT-223	2SK2741	A	Siemens
BSP324	400	25.00	0.16	1.5	SOT223	2SK2836	A	Siemens
BSP372	100	0.30	1.7	1.8	SOT223	2SK2742	A	Siemens
BSP373	100	0.30	1.7	1.8	SOT223	2SK2742	A	Siemens
BSP88	240	8	0.32		SOT-223	2SK2836	A	Siemens
BSP89	240	6	0.36		SOT-223	2SK2836	A	Siemens
BSP92	-240	20	0.2		SOT-223			Siemens
BSS100	100	6	0.22	0.63	TO-92			Fairchild
BSS100	100	6	0.22		TO-92			Siemens
BSS101	240	16	0.13		TO-92			Siemens
BSS110	-50	10	-0.17	0.63	TO-92			Fairchild
BSS110	-50	10	0.1		TO-92			Siemens
BSS119	100	6	0.17		SOT-23			Siemens
BSS123	100	6	0.17	0.36	SOT-23			Fairchild
BSS123	100	6	0.17		SOT-23			Siemens
BSS124	400	28	0.12		TO-92			Siemens
BSS125	600	45	0.1		TO-92			Siemens
BSS129	240	20	0.15		TO-92			Siemens
BSS131	240	16	0.1		SOT-23			Siemens
BSS135	600	60	0.08		TO-92			Siemens
BSS138	50	3.5	0.22	0.36	SOT-23			Fairchild
BSS138	50	3.5	0.22		SOT-23			Siemens
BSS139	250	100	0.04		SOT-23			Siemens
BSS145	65	3.5	0.22		SOT-23			Siemens
BSS149	200	3.5	0.35		TO-92			Siemens
BSS159	50	8	0.16		SOT-23			Siemens
BSS169	100	12	0.12		SOT-23			Siemens
BSS192	-240	20.00	0.15	1	SOT89			Siemens
BSS229	250	100	0.07		TO-92			Siemens
BSS284	-50	10	0.13		SOT-23			Siemens
BSS295	50	0.3	1.4		TO-92			Siemens
BSS296	100	0.8	0.8		TO-92			Siemens
BSS297	200	2	0.48		TO-92			Siemens
BSS7728	60	7.5	0.15		SOT-23			Siemens
BSS84	-50	10	-0.13	0.36	SOT-23			Fairchild
BSS84	-50	10	0.13		SOT-23			Siemens
BSS87	240	6.00	0.29	1	SOT89			Siemens
BSS92	-240	20	0.1		TO-92			Siemens
BSS98	50	3.5	0.3		TO-92			Siemens
BUK444-200A	200	0.4	5.3	25	TO-220IS	2SK2350	A	Philips
BUK444-200B	200	0.5	4.7	25	TO-220IS	2SK2350	A	Philips
BUK444-800A	800	6	1.4	30	TO-220IS	2SK2603	B	Philips
BUK444-800B	800	8	1.2	30	TO-220IS	2SK2997	B	Philips

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
BUK445-200A	200	0.23	7.6	30	TO-220IS	2SK2382	A	Philips
BUK445-200B	200	0.28	7	30	TO-220IS	2SK2965	A	Philips
BUK446-1000B	1000	5	1.5	30	TO-220IS	2SK1119	B	Philips
BUK446-800A	800	3	2	30	TO-220IS	2SK2603	B	Philips
BUK446-800B	800	4	1.7	30	TO-220IS	2SK2603	B	Philips
BUK452-100A	100	0.25	11	60	TO220AB	2SK2399	B	Philips
BUK452-100B	100	0.3	10	60	TO220AB			Philips
BUK452-60A	60	0.13	15	60	TO220AB	2SK2231	B	Philips
BUK452-60B	60	0.15	14	60	TO220AB	2SK2231	B	Philips
BUK453-100A	100	0.16	14	75	TO220AB	2SK2314	A	Philips
BUK453-100B	100	0.2	13	75	TO220AB	2SK2399	B	Philips
BUK453-60A	60	0.08	22	75	TO220AB	2SK2232	B	Philips
BUK453-60B	60	0.1	20	75	TO220AB	2SK2232	B	Philips
BUK454-200A	200	0.4	9.2	90	TO220AB	YTA630	A	Philips
BUK454-200B	200	0.5	8.2	90	TO220AB	YTA630	A	Philips
BUK454-60H	60	0.038	41	125	TO220AB	2SK2385	B	Philips
BUK454-800A	800	6	2.4	100	TO220AB	2SK2603	A	Philips
BUK454-800B	800	8	2	100	TO220AB	2SK2997	B	Philips
BUK455-100A	100	0.08	26	125	TO220AB	2SK2314	A	Philips
BUK455-100B	100	0.1	23	125	TO220AB	2SK2314	A	Philips
BUK455-200A	200	0.23	14	125	TO220AB	YTA640	A	Philips
BUK455-200B	200	0.28	13	125	TO220AB	2SK2965	B	Philips
BUK455-60A	60	0.038	41	125	TO220AB	2SK2385	B	Philips
BUK455-60B	60	0.045	38	125	TO220AB	2SK2232	B	Philips
BUK455-60H	60	0.03	43	125	TO220AB	2SK2385	B	Philips
BUK456-1000B	1000	5	3.1	125	TO220AB	2SK1119	A	Philips
BUK456-100A	100	0.057	34	150	TO220AB	2SK2466	B	Philips
BUK456-100B	100	0.065	32	150	TO220AB	2SK2314	A	Philips
BUK456-200A	200	0.16	19	150	TO220AB	YTA640	A	Philips
BUK456-200B	200	0.2	17	150	TO220AB	YTA640	A	Philips
BUK456-60A	60	0.028	52	150	TO220AB	2SK2385	B	Philips
BUK456-60B	60	0.03	51	150	TO220AB	2SK2385	B	Philips
BUK456-60H	60	0.02	60	150	TO220AB	2SK2312	B	Philips
BUK456-800A	800	3	4	125	TO220AB	2SK2603	A	Philips
BUK456-800B	800	4	3.5	125	TO220AB	2SK2603	A	Philips
BUK462-100A	100	0.25	11	60	D2PAK	2SK2399	B	Philips
BUK462-60A	60	0.13	15	60	D2PAK	2SK2231	B	Philips
BUK463-100A	100	0.16	14	75	D2PAK	2SK2789	A	Philips
BUK463-60A	60	0.08	22	75	D2PAK	2SK2311	A	Philips
BUK464-200A	200	0.4	9.2	90	D2PAK	2SK2401	A	Philips
BUK464-60H	60	0.038	41	125	D2PAK	2SK2266	A	Philips
BUK465-100A	100	0.08	26	125	D2PAK	2SK2789	A	Philips
BUK465-200A	200	0.23	14	125	D2PAK	2SK2401	A	Philips
BUK465-60A	60	0.038	41	125	D2PAK	2SK2266	A	Philips
BUK465-60H	60	0.03	43	125	D2PAK	2SK2266	A	Philips
BUK466-100A	100	0.057	34	150	D2PAK	2SK2466	B	Philips
BUK466-200A	200	0.16	19	150	D2PAK	2SK2401	A	Philips
BUK466-60A	60	0.028	52	150	D2PAK	2SK2266	A	Philips
BUK466-60H	60	0.02	60	150	D2PAK	2SK2376	A	Philips
BUK472-100A	100	0.25	6.6	22	TO-220IS	2SK2399	B	Philips

**Power MOSFETs Cross Reference**
**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
BUK472-100B	100	0.3	6.1	22	TO-220IS			Philips
BUK472-60A	60	0.13	10	22	TO-220IS	2SK2231	B	Philips
BUK472-60B	60	0.15	9.2	22	TO-220IS	2SK2231	B	Philips
BUK473-100A	100	0.16	9	25	TO-220IS	2SK2391	A	Philips
BUK473-100B	100	0.2	8	25	TO-220IS	2SK2399	B	Philips
BUK473-60A	60	0.08	13	25	TO-220IS	2SK2232	A	Philips
BUK473-60B	60	0.1	12	25	TO-220IS	2SK2232	A	Philips
BUK474-200A	200	0.4	5.3	25	TO-220IS	2SK2350	A	Philips
BUK474-200B	200	0.5	4.7	25	TO-220IS	2SK2350	A	Philips
BUK474-60H	60	0.038	21	30	TO-220IS	2SK2385	A	Philips
BUK475-100A	100	0.08	14	30	TO-220IS	2SK2391	A	Philips
BUK475-100B	100	0.1	12	30	TO-220IS	2SK2391	A	Philips
BUK475-200A	200	0.23	7.6	30	TO-220IS	2SK2382	A	Philips
BUK475-200B	200	0.28	7	30	TO-220IS	2SK2965	A	Philips
BUK475-60A	60	0.038	21	30	TO-220IS	2SK2385	A	Philips
BUK475-60B	60	0.045	20	30	TO-220IS	2SK2232	A	Philips
BUK475-60H	60	0.03	22.5	30	TO-220IS	2SK2385	A	Philips
BUK481-100A	100	0.8	1	1.5	SOT223	2SK2742	A	Philips
BUK481-60A	60	0.35	1.6	1.5	SOT223	2SK2741	A	Philips
BUK482-100A	100	0.28	1.8	1.8	SOT223	2SK2742	A	Philips
BUK482-200A	200	0.9	2	8.3	SOT223			Philips
BUK482-60A	60	0.13	2.5	1.7	SOT223	2SK2741	A	Philips
BUK483-60A	60	0.1	3.2	1.8	SOT223			Philips
BUK542-100A	100	0.28	6.3	22	TO-220IS	2SK2399	B	Philips
BUK542-100B	100	0.35	5.6	22	TO-220IS			Philips
BUK542-60A	60	0.15	9.2	22	TO-220IS	2SK2231	B	Philips
BUK542-60B	60	0.18	8.4	22	TO-220IS	2SK2231	B	Philips
BUK543-100A	100	0.18	8.3	25	TO-220IS	2SK2391	A	Philips
BUK543-100B	100	0.22	7.5	25	TO-220IS	2SK2399	B	Philips
BUK543-60A	60	0.085	13	25	TO-220IS	2SK2232	A	Philips
BUK543-60B	60	0.1	12	25	TO-220IS	2SK2232	A	Philips
BUK545-100A	100	0.085	13	30	TO-220IS	2SK2391	A	Philips
BUK545-100B	100	0.11	12	30	TO-220IS	2SK2391	A	Philips
BUK545-200A	200	0.23	7.6	30	TO-220IS	2SK2382	A	Philips
BUK545-200B	200	0.28	7	30	TO-220IS	2SK2965	A	Philips
BUK545-60A	60	0.042	20	30	TO-220IS	2SK2232	A	Philips
BUK545-60B	60	0.055	18	30	TO-220IS	2SK2232	A	Philips
BUK545-60H	60	0.038	21	30	TO-220IS	2SK2385	A	Philips
BUK552-100A	100	0.28	10	60	TO220AB	2SK2399	B	Philips
BUK552-100B	100	0.35	8.5	60	TO220AB			Philips
BUK552-60A	60	0.15	14	60	TO220AB	2SK2231	B	Philips
BUK552-60B	60	0.18	13	60	TO220AB	2SK2231	B	Philips
BUK553-100A	100	0.18	13	75	TO220AB	2SK2314	A	Philips
BUK553-100B	100	0.22	12	75	TO220AB	2SK2399	B	Philips
BUK553-48C	48	0.085	21	75	TO220AB			Philips
BUK553-60A	60	0.085	21	75	TO220AB	2SK2232	B	Philips
BUK553-60B	60	0.1	20	75	TO220AB	2SK2232	B	Philips
BUK554-200A	200	0.4	9.2	90	TO220AB	YTA630	A	Philips
BUK554-200B	200	0.5	8.2	90	TO220AB	YTA630	A	Philips
BUK554-60H	60	0.042	39	125	TO220AB	2SK2232	B	Philips

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
BUK555-100A	100	0.085	25	125	TO220AB	2SK2314	A	Philips
BUK555-100B	100	0.11	22	125	TO220AB	2SK2314	A	Philips
BUK555-200A	200	0.23	14	125	TO220AB	YTA640	A	Philips
BUK555-200B	200	0.28	13	125	TO220AB	2SK2965	B	Philips
BUK555-60A	60	0.042	39	125	TO220AB	2SK2232	B	Philips
BUK555-60B	60	0.055	35	125	TO220AB	2SK2232	B	Philips
BUK555-60H	60	0.038	41	125	TO220AB	2SK2385	B	Philips
BUK556-60A	60	0.026	50	150	TO220AB	2SK2385	B	Philips
BUK556-60H	60	0.022	60	150	TO220AB	2SK2312	B	Philips
BUK562-100A	100	0.28	10	60	D2PAK	2SK2399	B	Philips
BUK-562A	60	0.15	14	60	D2PAK	2SK2231	B	Philips
BUK563-100A	100	0.18	13	75	D2PAK	2SK2789	A	Philips
BUK563-48C	48	0.085	21	75	D2PAK			Philips
BUK563-60A	60	0.085	21	75	D2PAK	2SK2311	A	Philips
BUK564-200A	200	0.4	9.2	90	D2PAK	2SK2401	A	Philips
BUK564-60H	60	0.042	39	125	D2PAK	2SK2311	A	Philips
BUK565-100A	100	0.085	14	30	D2PAK	2SK2789	A	Philips
BUK565-200A	200	0.23	14	125	D2PAK	2SK2401	A	Philips
BUK565-60A	60	0.042	39	125	D2PAK	2SK2311	A	Philips
BUK565-60H	60	0.038	41	125	D2PAK	2SK2266	A	Philips
BUK566-60A	60	0.026	50	150	D2PAK	2SK2266	A	Philips
BUK566-60H	60	0.022	60	150	D2PAK	2SK2376	A	Philips
BUK573-48C	48	0.085	13	50	TO-220IS			Philips
BUK574-60H	60	0.042	20	30	TO-220IS	2SK2232	A	Philips
BUK581-100A	100	0.9	0.9	1.5	SOT223			Philips
BUK581-60A	60	0.4	1.5	1.5	SOT223	2SK2741	A	Philips
BUK582-100A	100	0.31	1.7	1.8	SOT223	2SK2742	A	Philips
BUK582-60A	60	0.15	2.7	1.7	SOT223	2SK2741	A	Philips
BUK583-60A	60	0.1	3.2	1.8	SOT223			Philips
BUK7508-55	55	0.008	75	187	TO220AB	2SK2985	B	Philips
BUK7514-55	55	0.014	68	142	TO220AB	2SK2312	B	Philips
BUK7518-55	55	0.018	57	125	TO220AB	2SK2312	B	Philips
BUK7520-55	55	0.02	52	115	TO220AB	2SK2312	B	Philips
BUK7524-55	55	0.024	45	103	TO220AB	2SK2385	B	Philips
BUK7530-55	55	0.03	30	75	TO220AB	2SK2385	B	Philips
BUK7540-55	55	0.04	10.7	8.3	SOT223			Philips
BUK7570-55	55	0.07	19	60	TO220AB	2SK2232	B	Philips
BUK7608-55	55	0.008	75	187	D2PAK	2SK2986	A	Philips
BUK7614-55	55	0.014	68	142	D2PAK	2SK2376	A	Philips
BUK7618-55	55	0.018	57	125	D2PAK	2SK2376	A	Philips
BUK7620-55	55	0.02	52	115	D2PAK	2SK2376	A	Philips
BUK7624-55	55	0.024	45	103	D2PAK	2SK2266	A	Philips
BUK7630-55	55	0.03	30	75	D2PAK	2SK2266	A	Philips
BUK7670-55	55	0.07	19	60	D2PAK	2SK2311	A	Philips
BUK78150-55	55	0.15	5.5	8.3	SOT223	2SK2741	A	Philips
BUK7880-55	55	0.08	7.5	8.3	SOT223			Philips
BUK9508-55	55	0.008	75	187	TO220AB	2SK2985	B	Philips
BUK9514-55	55	0.014	68	142	TO220AB	2SK2312	B	Philips
BUK9518-55	55	0.018	57	125	TO220AB	2SK2312	B	Philips
BUK9520-55	55	0.02	52	115	TO220AB	2SK2312	B	Philips



**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
BUK9524-55	55	0.024	45	103	TO220AB	2SK2385	B	Philips
BUK9530-55	55	0.03	30	75	TO220AB	2SK2385	B	Philips
BUK9570-55	55	0.07	19	60	TO220AB	2SK2232	B	Philips
BUK9608-55	55	0.008	75	187	D2PAK	2SK2986	A	Philips
BUK9614-55	55	0.014	68	142	D2PAK	2SK2376	A	Philips
BUK9618-55	55	0.018	57	125	D2PAK	2SK2376	A	Philips
BUK9620-55	55	0.02	52	115	D2PAK	2SK2376	A	Philips
BUK9624-55	55	0.024	45	103	D2PAK	2SK2266	A	Philips
BUK9630-55	55	0.03	30	75	D2PAK	2SK2266	A	Philips
BUK9670-55	55	0.07	19	60	D2PAK	2SK2311	A	Philips
BUK98150-55	55	0.15	5.5	8.3	SOT223	2SK2741	A	Philips
BUK9840-55	55	0.04	10.7	8.3	SOT223			Philips
BUK9880-55	55	0.08	7.5	8.3	SOT223			Philips
BUZ10	50	0.07	23	75	TO-220AB	2SK2507	B	Siemens
BUZ100	50	0.018	58		TO-220AB	2SK2886	B	Siemens
BUZ100L	50	0.018	60		TO-220AB	2SK2886	B	Siemens
BUZ100S	55	0.015	77		TO-220AB	2SK2312	B	Siemens
BUZ100SL	55	0.018	70		TO-220AB	2SK2312	B	Siemens
BUZ101	50	0.06	25	100	TO-220AB	2SK2507	B	Siemens
BUZ101L	50	0.06	29		TO-220AB	2SK2507	B	Siemens
BUZ101S	55	0.06	23		TO-220AB	2SK2232	B	Siemens
BUZ101SL	55	0.07	21		TO-220AB	2SK2232	B	Siemens
BUZ102	50	0.023	42	180	TO-220AB	2SK2886	B	Siemens
BUZ102AL	50	0.028	42		TO-220AB	2SK2886	B	Siemens
BUZ102S	55	0.023	52		TO-220AB	2SK2312	B	Siemens
BUZ102SL	55	0.028	47		TO-220AB	2SK2385	B	Siemens
BUZ103	50	0.04	40	120	TO-220AB	2SK2385	B	Siemens
BUZ103AL	50	0.05	35		TO-220AB	2SK2507	B	Siemens
BUZ103S	55	0.04	31		TO-220AB	2SK2232	B	Siemens
BUZ103SL	55	0.05	28		TO-220AB	2SK2232	B	Siemens
BUZ104	50	0.1	17.5	60	TO-220AB	2SK2507	B	Siemens
BUZ104L	50	0.1	17.5		TO-220AB	2SK2507	B	Siemens
BUZ104S	55	0.1	14		TO-220AB	2SK2232	B	Siemens
BUZ104SL	55	0.12	12.8		TO-220AB	2SK2232	B	Siemens
BUZ10L	50	0.07	23	75	TO-220AB	2SK2507	B	Siemens
BUZ10S2	60	0.07	23	75	TO-220AB	2SK2232	B	Siemens
BUZ11	50	0.04	30	75	TO-220AB	2SK2507	B	Siemens
BUZ110S	55	0.012	80		TO-220AB			Siemens
BUZ110SL	55	0.015	80		TO-220AB	2SK2312	B	Siemens
BUZ111S	55	0.008	80		TO-220AB	2SK2985	B	Siemens
BUZ111SL	55	0.01	80		TO-220AB			Siemens
BUZ11A	50	0.055	26	75	TO-220AB	2SK2507	B	Siemens
BUZ11AL	50	0.055	26	75	TO-220AB	2SK2507	B	Siemens
BUZ11FI	50	0.04	21	40	TO-220IS	2SK2385	A	ST
BUZ11S2	60	0.04	30	75	TO-220AB	2SK2385	B	Siemens
BUZ12	50	0.028	42	125	TO-220AB	2SK2886	B	Siemens
BUZ12A	50	0.035	42	125	TO-220AB	2SK2886	B	Siemens
BUZ12AL	50	0.035	42	125	TO-220AB	2SK2886	B	Siemens
BUZ171	-50	0.3	-8	40	TO-220AB	2SJ438	B	Siemens
BUZ172	-100	0.6	-5.5	40	TO-220AB			Siemens

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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
BUZ173	-200	1.5	-3	40	TO-220AB	2SJ407	B	Siemens
BUZ20	100	0.2	13.5	75	TO-220AB	2SK2399	B	Siemens
BUZ205	400	1	6	75	TO-220AB	2SK2679	B	Siemens
BUZ21	100	0.085	21	75	TO-220AB	2SK2314	A	Siemens
BUZ215	500	1.5	5.1	75	TO-220AB	2SK2661	A	Siemens
BUZ21L	100	0.085	21	75	TO-220AB	2SK2314	A	Siemens
BUZ22	100	0.055	34	125	TO-220AB	2SK2466	B	Siemens
BUZ255	250	0.24	13	95	TO-220AB	2SK2508	B	Siemens
BUZ271	-50	0.15	-22	40	TO-220AB	2SJ464	B	Siemens
BUZ272	-100	0.3	-15	40	TO-220AB	2SJ380	B	Siemens
BUZ305	800	1	7.5	150	TO-218	2SK2607	A	Siemens
BUZ307	800	3	3	75	TO-218	2SK2603	B	Siemens
BUZ308	800	4	2.6	75	TO-218	2SK2603	B	Siemens
BUZ30A	200	0.13	21	125	TO-220AB	YTA640	A	Siemens
BUZ31	200	0.2	13.5	75	TO-220AB	YTA640	A	Siemens
BUZ310	1000	5	2.5	75	TO-218	2SK1359	A	Siemens
BUZ311	1000	6	2.3	75	TO-218	2SK1359	A	Siemens
BUZ312	1000	1.5	6	150	TO-218	2SK2613	A	Siemens
BUZ31L	200	0.2	13.5	75	TO-220AB	YTA640	A	Siemens
BUZ32	200	0.4	9.5	75	TO-220AB	YTA630	A	Siemens
BUZ323	400	0.3	15	170	TO-218	2SK2837	A	Siemens
BUZ325	400	0.35	12.5	125	TO-218	2SK2698	A	Siemens
BUZ326	400	0.5	10.5	125	TO-218	2SK2841	B	Siemens
BUZ330	500	0.6	9.5	125	TO-218	2SK2842	B	Siemens
BUZ331	500	0.8	8	125	TO-218	2SK2601	A	Siemens
BUZ332	600	0.8	8.5	150	TO-218	2SK2699	A	Siemens
BUZ332A	600	0.9	8	150	TO-218	2SK2699	A	Siemens
BUZ333	500	0.4	13.5	170	TO-218	2SK2698	A	Siemens
BUZ334	600	0.5	12	180	TO-218	2SK2915	A	Siemens
BUZ338	500	0.4	13.5		TO-218	2SK2698	A	Siemens
BUZ339	500	0.5	11.5	170	TO-218	2SK2698	A	Siemens
BUZ341	200	0.07	33	170	TO-218	2SK3176	A	Siemens
BUZ342	50	0.01	60	400	TO-218	2SK2551	A	Siemens
BUZ344	100	0.035	46	170	TO-218	2SK1381	A	Siemens
BUZ345	100	0.045	41	150	TO-218	2SK2466	B	Siemens
BUZ346	50	0.018	58	125	TO-218	2SK2744	A	Siemens
BUZ346S2	60	0.018	58	170	TO-218	2SK2173	A	Siemens
BUZ347	50	0.03	45	125	TO-218	2SK2550	A	Siemens
BUZ349	100	0.06	32	125	TO-218	2SK2466	B	Siemens
BUZ350	200	0.12	22	125	TO-218	2SK2382	B	Siemens
BUZ351	400	0.4	11.5		TO-218	2SK2698	A	Harris
BUZ355	800	1.5	6	125	TO-218	2SK2746	A	Siemens
BUZ356	800	2	5	125	TO-218	2SK2604	A	Siemens
BUZ357	1000	2	5	125	TO-218	2SK1120	A	Siemens
BUZ358	1000	2.6	4.5	125	TO-218	2SK1120	A	Siemens
BUZ380	1000	2	5.5	125	TO-218	2SK1120	A	Siemens
BUZ382	400	0.4	12.5	125	TO-218	2SK2698	A	Siemens
BUZ384	500	0.6	10.5	125	TO-218	2SK2842	B	Siemens
BUZ385	500	0.8	9	125	TO-218	2SK2601	A	Siemens
BUZ40B	500	0.8	8	150	TO-220AB	2SK2542	A	Siemens

**Power MOSFETs Cross Reference**
**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
BUZ41A	500	1.5	4.5	75	TO-220AB	2SK2661	A	Siemens
BUZ42	500	2	4	75	TO-220AB	2SK2661	A	Siemens
BUZ50A	1000	5	2.5	75	TO-220AB	2SK1119	A	Siemens
BUZ50B	1000	8	2	75	TO-220AB	2SK1119	A	Siemens
BUZ50C	1000	6	2.3	75	TO-220AB	2SK1119	A	Siemens
BUZ51	1000	4	3.4	125	TO-220AB	2SK1119	A	Siemens
BUZ60	400	1	5.5	75	TO-220AB	2SK2679	B	Siemens
BUZ60B	400	1.5	4.5		TO-220AB	2SK2679	B	Harris
BUZ61	400	0.4	12.5	150	TO-220AB	2SK2841	A	Siemens
BUZ61A	400	0.5	11	150	TO-220AB	2SK2841	A	Siemens
BUZ70	60	0.15	12	40	TO-220AB	2SK2231	B	Siemens
BUZ70L	60	0.15	12	40	TO-220AB	2SK2231	B	Siemens
BUZ71	50	0.1	14	40	TO-220AB	2SK2507	B	Siemens
BUZ71A	50	0.12	13	40	TO-220AB	2SK2507	B	Siemens
BUZ71AFI	50	0.12	11	35	TO-220IS	2SK2507	A	ST
BUZ71AL	50	0.12	13	40	TO-220AB	2SK2507	B	Siemens
BUZ71FI	50	0.1	12	35	TO-220IS	2SK2507	A	ST
BUZ71L	50	0.1	14	40	TO-220AB	2SK2507	B	Siemens
BUZ71S2	60	0.1	14	40	TO-220AB	2SK2232	B	Siemens
BUZ72	100	0.2	10	40	TO-220AB	2SK2399	B	Siemens
BUZ72A	100	0.25	9	40	TO-220AB	2SK2399	B	Siemens
BUZ72A	100	0.25	11		TO-220	2SK2399	B	ST
BUZ72AL	100	0.25	9	40	TO-220AB	2SK2399	B	Siemens
BUZ72L	100	0.2	10	40	TO-220AB	2SK2399	B	Siemens
BUZ73	200	0.4	7	40	TO-220AB	YTA630	A	Siemens
BUZ73A	200	0.6	5.8	40	TO-220AB	YTA630	A	Siemens
BUZ73AL	200	0.6	5.8	40	TO-220AB	YTA630	A	Siemens
BUZ73L	200	0.4	7	40	TO-220AB	YTA630	A	Siemens
BUZ74	500	3	2.4	40	TO-220AB	2SK2862	B	Siemens
BUZ74A	500	4	2.1	40	TO-220AB	2SK2862	B	Siemens
BUZ76	400	1.8	3	40	TO-220AB	2SK2679	B	Siemens
BUZ76A	400	2.5	2.6	40	TO-220AB	2SK2862	B	Siemens
BUZ77A	600	4	2.7	75	TO-220AB	2SK3067	B	Siemens
BUZ77B	600	3.5	2.9	75	TO-220AB	2SK3085	A	Siemens
BUZ78	800	8	1.5	40	TO-220AB	2SK2997	B	Siemens
BUZ80	800	4	2.6	75	TO-220AB	2SK2603	A	Siemens
BUZ80A	800	3	3	75	TO-220AB	2SK2603	A	Siemens
BUZ80AFI	800	3	2.4	40	TO-220IS	2SK2603	B	ST
BUZ80FI	800	4	2.1	40	TO-220IS	2SK2603	B	ST
BUZ81	800	2.5	4	125	TO-220AB	2SK2605	B	Siemens
BUZ90	600	1.6	4.5	75	TO-220AB	2SK2544	A	Siemens
BUZ90A	600	2	4	75	TO-220AB	2SK3085	A	Siemens
BUZ91	600	0.8	8.5	150	TO-220AB	2SK2866	A	Siemens
BUZ91A	600	0.9	8	150	TO-220AB	2SK2866	A	Siemens
BUZ92	600	3	3.2	75	TO-220AB	2SK3085	A	Siemens
BUZ93	600	2.5	3.6	75	TO-220AB	2SK2750	B	Siemens
F10H3N*	30	0.015	10		SOP-8(Single)	TPC8005-H	A	Shindengen
F2H3ND	30	0.18	2.5		SOP-8(Dual)			Shindengen
F3H3C	30/-30	0.18/0.2	2.5/-2.5		SOP-8(P&N)			Shindengen
F3H3ND	30	0.11	3		SOP-8(Dual)	TPC8201	A	Shindengen

**Power MOSFETs Cross Reference**

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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
F3H3P	-30	0.2	-2.5		SOP-8(Single)			Shindengen
F3H3PD	-30	0.2	-2.5		SOP-8(Dual)			Shindengen
F4H3C	30/-30	0.07/0.15	4/-3.5		SOP-8(P&N)	TPC8401	A	Shindengen
F4H3N	30	0.07	4		SOP-8(Single)	TPC8004	A	Shindengen
F4H3ND	30	0.07	4		SOP-8(Dual)	TPC8201	A	Shindengen
F4H3P	-30	0.15	-3.5		SOP-8(Single)			Shindengen
F4H3PD	-30	0.15	-3.5		SOP-8(Dual)	TPC8301	A	Shindengen
F5H2ND	20	0.04	5		SOP-8(Dual)	TPC8202	A	Shindengen
F5H3N	30	0.05	5		SOP-8(Single)	TPC8004	A	Shindengen
F5H3ND	30	0.05	5		SOP-8(Dual)	TPC8201	A	Shindengen
F5H3P	-30	0.09	-4.5		SOP-8(Single)	TPC8104-H	A	Shindengen
F7H2N	20	0.022	7		SOP-8(Single)	TPC8008	A	Shindengen
F7H3P*	-30	0.05	-6.5		SOP-8(Single)	TPC8105-H	A	Shindengen
F8H3N	30	0.03	8		SOP-8(Single)	TPC8006-H	A	Shindengen
F9H4N	40	0.03	9		SOP-8(Single)			Shindengen
FA38SA50LC	500	0.13	38	500	SOT-227			IR
FA57SA50LC	500	0.08	57	625	SOT-227			IR
FDC6301N	25	4	0.22	0.9	SSOT-6(Dual)			Fairchild
FDC6302P	-25	10	-0.12	0.9	SSOT-6(Dual)			Fairchild
FDC6303N	25	0.45	0.68	0.9	SSOT-6(Dual)			Fairchild
FDC6304P	-25	1.1	-0.46	0.9	SSOT-6(Dual)			Fairchild
FDC6306P	-20	0.16	-1.9	0.9	SSOT-6(Dual)			Fairchild
FDC6320C	25/-25	4/10	0.22/-0.12	0.9	SSOT-6(P&N)			Fairchild
FDC6321C	25/-25	0.045/1.1	0.68/-0.46	0.9	SSOT-6(P&N)			Fairchild
FDC6322C	25/-25	4/1.1	0.22/-0.46	0.9	SSOT-6(P&N)			Fairchild
FDC633N	30	0.042	5.2	1.6	SSOT-6(Single)			Fairchild
FDC634P	-20	0.08	-3.5	1.6	SSOT-6(Single)			Fairchild
FDC636P	-20	0.13	-2.8	1.6	SSOT-6(Single)			Fairchild
FDC638P	-20	0.05	-4.5	1.6	SSOT-6(Single)			Fairchild
FDC6506P	-30	0.165	-1.8	0.9	SSOT-6(Dual)			Fairchild
FDC653N	30	0.035	5	1.6	SSOT-6(Single)			Fairchild
FDC654P	-30	0.075	-3.6	1.6	SSOT-6(Single)			Fairchild
FDC655AN	30	0.027	6.3	1.6	SSOT-6(Single)			Fairchild
FDC6561AN	30	0.095	2.5	0.9	SSOT-6(Dual)			Fairchild
FDC658P	-30	0.05	-4	1.6	SSOT-6(Single)			Fairchild
FDG6301N	25	4	0.22	0.3	SC70-6(Dual)			Fairchild
FDG6302P	-25	10	-0.14	0.3	SC70-6(Dual)			Fairchild
FDG6303N	25	0.45	0.5	0.3	SC70-6(Dual)			Fairchild
FDG6304P	-25	1.1	-0.41	0.3	SC70-6(Dual)			Fairchild
FDG6320C	25/-25	4/10	0.22/-0.14	0.3	SC70-6(P&N)			Fairchild
FDG6321C	25/-25	0.45/1.10	0.50/-0.41	0.3	SC70-6(P&N)			Fairchild
FDG6322C	25/-25	4/1.10	0.22/-0.41	0.3	SC70-6(P&N)			Fairchild
FDN336P	-20	0.2	-1.3	0.5	SOT-23			Fairchild
FDN337N	30	0.065	2.2	0.5	SOT-23			Fairchild
FDN338P	-20	0.13	-1.6	0.5	SOT-23			Fairchild
FDN340P	-20	0.07	-2	0.5	SOT-23			Fairchild
FDN357N	30	0.06	2.2	0.5	SOT-23			Fairchild
FDN358P	-30	0.125	-1.5	0.5	SOT-23			Fairchild
FDN359AN	30	0.044	2.7	0.5	SOT-23			Fairchild
FDN360P	-30	0.085	-2	0.5	SOT-23			Fairchild

**Power MOSFETs Cross Reference**
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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
FDP4030L	30	0.035	20	37.5	TO-220AB	2SK2844	A	Fairchild
FDP6030L	30	0.0135	52	75	TO-220AB	2SK3127	B	Fairchild
FDP6035AL	30	0.0125	48	58	TO-220AB	2SK3127	B	Fairchild
FDP6035L	30	0.011	58	75	TO-220AB	2SK3127	B	Fairchild
FDP603AL	30	0.022	33	50	TO-220AB	2SK2844	A	Fairchild
FDP6670AL	30	0.0065	80	75	TO-220AB			Fairchild
FDP7030BL	30	0.009	60	65	TO-220AB	2SK3127	B	Fairchild
FDP7030L	30	0.007	100	125	TO-220AB			Fairchild
FDP8030L	30	0.0035	80	187	TO-220AB			Fairchild
FDPNDP6030	30	0.018	46	75	TO-220AB	2SK2844	A	Fairchild
FDR4410	30	0.013	9.3	1.8	SSOT-8(Single)			Fairchild
FDR4420A	30	0.009	11	1.8	SSOT-8(Single)			Fairchild
FDR8308P	-20	0.05	-3.2	0.8	SSOT-8(Dual)			Fairchild
FDR835N	30	0.015	8.7	1.8	SSOT-8(Single)			Fairchild
FDR836P	-20	0.03	-6.1	1.8	SSOT-8(Single)			Fairchild
FDR838P	-20	0.017	-8.1	1.8	SSOT-8(Single)			Fairchild
FDR8508P	-30	0.052	-3	0.8	SSOT-8(Dual)			Fairchild
FDR856P	-30	0.025	-6.3	1.8	SSOT-8(Single)			Fairchild
FDR858P	-30	0.019	-8	1.8	SSOT-8(Single)			Fairchild
FDR9410A	30	0.028	5.8	1.8	SSOT-8(Single)			Fairchild
FDS4435	-30	0.02	-9	2.5	SOP-8(Single)	TPC8106-H	A	Fairchild
FDS4953	-30	0.053	-4.9	2	SOP-8(Dual)	TPC8303	A	Fairchild
FDS6575	-20	0.013	-10	2.5	SOP-8(Single)	TPC8103	A	Fairchild
FDS6612A	30	0.022	8.4		SOP-8(Single)	TPC8001	A	Fairchild
FDS6670A	30	0.008	13		SOP-8(Single)	TPC8007-H	A	Fairchild
FDS6675	-30	0.014	-11	2.5	SOP-8(Single)	TPC8103	A	Fairchild
FDS6680	30	0.01	11.5		SOP-8(Single)	TPC8007-H	A	Fairchild
FDS6680A	30	0.0095	12.5		SOP-8(Single)	TPC8007-H	A	Fairchild
FDS6690A	30	0.0125	11		SOP-8(Single)	TPC8005-H	A	Fairchild
FDS6875	-20	0.03	-6	2	SOP-8(Dual)			Fairchild
FDS6912A	30	0.028	6	2	SOP-8(Dual)	TPC8203	A	Fairchild
FDS6930A	30	0.042	4.6	2	SOP-8(Dual)	TPC8201	A	Fairchild
FDS6961A	30	0.09	3.5	2	SOP-8(Dual)	TPC8201	A	Fairchild
FDS6975	-30	0.032	-6	2	SOP-8(Dual)	TPC8303	A	Fairchild
FDS6990A	30	0.018	7.5	2	SOP-8(Dual)	TPC8203	A	Fairchild
FDS8926A	30	0.03	5.5	2	SOP-8(Dual)	TPC8203	A	Fairchild
FDS8928A	30/-20	0.03/0.055	5.5/-4	2	SOP-8(P&N)			Fairchild
FDS8934A	-20	0.055	-4		SOP-8(Dual)			Fairchild
FDS8936A	30	0.028	6		SOP-8(Dual)	TPC8203	A	Fairchild
FDS8936S	30	0.04	5		SOP-8(Dual)	TPC8201	A	Fairchild
FDS8947A	-30	0.052	-4	2	SOP-8(Dual)	TPC8303	A	Fairchild
FDS8958A	30/-30	0.028/0.052	7/-5	2	SOP-8(P&N)	TPC8401	A	Fairchild
FDS9412	30	0.022	7.9		SOP-8(Single)	TPC8001	A	Fairchild
FDS9435A	-30	0.045	-5.3		SOP-8(Single)	TPC8105-H	A	Fairchild
FDS9933A	-20	0.075	-3.8	2	SOP-8(Dual)			Fairchild
FDS9936A	30	0.04	5.5	2	SOP-8(Dual)	TPC8201	A	Fairchild
FDT457N	30	0.06	5	3	SOT-223	2SK2839	A	Fairchild
FDT459N	30	0.04	6.5	3	SOT-223	2SK2839	A	Fairchild
FDT5060	60	0.05	7	3	SOT-223			Fairchild
FDT5060L	60	0.04	6	3	SOT-223			Fairchild

**Power MOSFETs Cross Reference**
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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
FDV301N	25	4	0.22	0.35	SOT-23	2SK2009	A	Fairchild
FDV302P	-25	10	-0.12	0.35	SOT-23			Fairchild
FDV303N	25	0.45	0.68	0.35	SOT-23	SSM3K02F	A	Fairchild
FDV304P	-25	1.1	-0.46	0.35	SOT-23			Fairchild
FSS101	20	0.058	5		SOP-8(Single)			Sanyo
FSS201	20	0.034	7		SOP-8(Single)	TPC8008	A	Sanyo
FSS202	30	0.032	7		SOP-8(Single)	TPC8006-H	A	Sanyo
FSS206	30	0.018	9		SOP-8(Single)	TPC8005-H	A	Sanyo
FSS208	30	0.0125	10		SOP-8(Single)	TPC8002	A	Sanyo
FTS1001	-20		-4		TSSOP-8(Single)			Sanyo
FTS1002	-30		-3		TSSOP-8(Single)	TPCS8101	A	Sanyo
FTS2001	20		5		TSSOP-8(Single)	TPCS8002	A	Sanyo
FTS2002	30		5		TSSOP-8(Single)	TPCS8001-H	A	Sanyo
FTS2003	20		4		TSSOP-8(Single)	TPCS8002	A	Sanyo
FTS2004	30		4		TSSOP-8(Single)	TPCS8001-H	A	Sanyo
FW101	-12	0.115	-3		SOP-8(Dual)			Sanyo
FW102	-20	0.1	-3		SOP-8(Dual)	TPC8302	A	Sanyo
FW103	-30	0.125	-3		SOP-8(Dual)	TPC8301	A	Sanyo
FW104	-12	0.4	-2		SOP-8(Dual)			Sanyo
FW106	-30	0.16	-3		SOP-8(Dual)	TPC8301	A	Sanyo
FW107	-60	0.31	-2		SOP-8(Dual)	TPC8304	A	Sanyo
FW108	-60	0.33	-2		SOP-8(Dual)	TPC8304	A	Sanyo
FW111	-20	0.058	-5		SOP-8(Dual)			Sanyo
FW201	20	0.05	5		SOP-8(Dual)	TPC8202	A	Sanyo
FW202	20	0.04	5		SOP-8(Dual)	TPC8203	A	Sanyo
FW203	30	0.046	5		SOP-8(Dual)	TPC8201	A	Sanyo
FW204	20	0.2	2		SOP-8(Dual)			Sanyo
FW206	30	0.074	5		SOP-8(Dual)	TPC8201	A	Sanyo
FW207	60	0.135	3		SOP-8(Dual)	TPC8205	A	Sanyo
FW208	60	0.145	3		SOP-8(Dual)	TPC8205	A	Sanyo
FW211	20	0.035	6		SOP-8(Dual)	TPC8204	A	Sanyo
FW213	30	0.032	6		SOP-8(Dual)	TPC8203	A	Sanyo
FW214	20	0.05	5		SOP-8(Dual)	TPC8202	A	Sanyo
FW215	30	0.046	5		SOP-8(Dual)	TPC8201	A	Sanyo
FW306	30/-30	0.065/0.16	5/-3		SOP-8(P&N)	TPC8401	A	Sanyo
FY10AAJ-03	30	0.0135	10		SOP-8(Single)	TPC8005-H	A	Mitsubishi
FY3ABJ-03	-30	0.1	-3		SOP-8(Single)	TPC8104-H	A	Mitsubishi
FY5ACH-03A*	30	0.05	5		SOP-8(Single)	TPC8004	A	Mitsubishi
FY6ACH-02A*	20	0.03	6		SOP-8(Single)	TPC8008	A	Mitsubishi
FY7AAJ-03	30	0.03	7		SOP-8(Single)	TPC8006-H	A	Mitsubishi
FY8ABJ-03	-30	0.02	-8		SOP-8(Single)	TPC8106-H	A	Mitsubishi
HAT1001F	-20	0.07	-3.5		SOP-8(Single)			Hitachi
HAT1002F	-30	0.07	-3		SOP-8(Single)	TPC8104-H	A	Hitachi
HAT1004F	-20	-	-3		SOP-8(Single)			Hitachi
HAT1005F	-30	-	-3		SOP-8(Single)			Hitachi
HAT1006F	-60	0.14	-2.5		SOP-8(Single)			Hitachi
HAT1007F	-20	-	-3.5		SOP-8(Single)			Hitachi
HAT1008F	-30	-	-2.5		SOP-8(Single)			Hitachi
HAT1016R	-30	0.09	-4.5		SOP-8(Dual)	TPC8301	A	Hitachi
HAT1020R	-30	0.07	-5		SOP-8(Single)	TPC8104-H	A	Hitachi

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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
HAT1021R	-20	0.06	-5.5		SOP-8(Single)			Hitachi
HAT1023R	-20	0.04	-7		SOP-8(Single)			Hitachi
HAT1024R	-30	0.34	-3.5		SOP-8(Dual)	TPC8301	A	Hitachi
HAT1025R	-20	0.095	-4.5		SOP-8(Dual)	TPC8302	A	Hitachi
HAT1026R	-30	0.037	-7		SOP-8(Single)	TPC8105-H	A	Hitachi
HAT1030T	-12		-3		TSSOP-8(Dual)			Hitachi
HAT1031T	-20		-2.5		TSSOP-8(Dual)			Hitachi
HAT1033T	-20		-2.5		TSSOP-8(Single)			Hitachi
HAT1036R	-30	0.014	-12		SOP-8(Single)	TPC8103	A	Hitachi
HAT2001F	30	0.04	5		SOP-8(Single)	TPC8006-H	A	Hitachi
HAT2002F	30	0.04	5		SOP-8(Single)	TPC8006-H	A	Hitachi
HAT2003F	30	-	3		SOP-8(Single)			Hitachi
HAT2004F	15	0.06	4		SOP-8(Dual)			Hitachi
HAT2005F	15	0.055	5		SOP-8(Single)			Hitachi
HAT2006F	60	0.06	4		SOP-8(Single)			Hitachi
HAT2007F	20	0.053	4		SOP-8(Single)			Hitachi
HAT2016R	30	0.045	6.5		SOP-8(Dual)	TPC8201	A	Hitachi
HAT2019R	30	0.027	8		SOP-8(Single)	TPC8006-H	A	Hitachi
HAT2020R	30	0.028	8		SOP-8(Single)	TPC8006-H	A	Hitachi
HAT2022R	30	0.015	11		SOP-8(Single)	TPC8005-H	A	Hitachi
HAT2024R	30	0.065	5.5		SOP-8(Single)	TPC8004	A	Hitachi
HAT2025R	30	0.026	8		SOP-8(Single)	TPC8006-H	A	Hitachi
HAT2026R	20	0.015	11		SOP-8(Single)	TPC8008	A	Hitachi
HAT2027R	20	0.038	7		SOP-8(Dual)	TPC8202	A	Hitachi
HAT2029R	20	0.028	8		SOP-8(Dual)	TPC8204	A	Hitachi
HAT2031T	20		4		TSSOP-8(Dual)	TPCS8201	A	Hitachi
HAT2032T	-12		-4		TSSOP-8(Single)			Hitachi
HAT2036R	30	0.015	12		SOP-8(Single)	TPC8005-H	A	Hitachi
HAT2037T	28		4.5		TSSOP-8(Single)	TPCS8002	A	Hitachi
HAT2040R	30	0.008	15		SOP-8(Single)	TPC8003	A	Hitachi
HAT2042T	20		5		TSSOP-8(Dual)	TPCS8201	A	Hitachi
HAT3004R	30/-30	0.045/0.09	5.5/3.5		SOP-8(P&N)	TPC8401	A	Hitachi
HAT3006R	30/-30	0.046/0.09	6.5/4.5		SOP-8(P&N)	TPC8401	A	Hitachi
HRF3205	55	0.008	100		TO-220AB	2SK2985	B	Harris
HRF3205L	55	0.008	100		TO-262	2SK2986	A	Harris
HRF3205S/T	55	0.008	100		TO-263	2SK2986	A	Harris
HUF75307D3	55	0.09	13		TO-251	2SK2782	A	Harris
HUF75307D3S/T	55	0.09	13		TO-252	2SK2782	A	Harris
HUF75307P3	55	0.09	13		TO-220AB	2SK2232	B	Harris
HUF75307T3ST	55	0.09	3.5		SOT-223			Harris
HUF75309D3	55	0.07	17		TO-251	2SK2782	A	Harris
HUF75309D3S/T	55	0.07	17		TO-252	2SK2782	A	Harris
HUF75309P3	55	0.07	17		TO-220AB	2SK2232	B	Harris
HUF75309T3ST	55	0.07	4		SOT-223			Harris
HUF75321D3	55	0.036	20		TO-251			Harris
HUF75321D3S/T	55	0.036	20		TO-252			Harris
HUF75321P3	55	0.034	31		TO-220AB	2SK2385	B	Harris
HUF75321S3	55	0.034	31		TO-262	2SK2266	A	Harris
HUF75321S3S/T	55	0.034	31		TO-263	2SK2266	A	Harris
HUF75329D3	55	0.026	20		TO-251			Harris

**Power MOSFETs Cross Reference**
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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
HUF75329D3S/T	55	0.026	20		TO-252			Harris
HUF75329G3	55	0.024	42		TO-247	2SK2233	A	Harris
HUF75329P3	55	0.024	42		TO-220AB	2SK2385	B	Harris
HUF75329S3	55	0.024	42		TO-262	2SK2266	A	Harris
HUF75329S3S/T	55	0.024	42		TO-263	2SK2266	A	Harris
HUF75332G3	55	0.019	52		TO-247	2SK2173	A	Harris
HUF75332P3	55	0.019	52		TO-220AB	2SK2312	B	Harris
HUF75332S3	55	0.019	52		TO-262	2SK2376	A	Harris
HUF75332S3S/T	55	0.019	52		TO-263	2SK2376	A	Harris
HUF75333G3	55	0.016	56		TO-247	2SK2173	A	Harris
HUF75333P3	55	0.016	56		TO-220AB	2SK2312	B	Harris
HUF75333S3	55	0.016	56		TO-262	2SK2376	A	Harris
HUF75333S3S/T	55	0.016	56		TO-263	2SK2376	A	Harris
HUF75337G3	55	0.014	62		TO-247	2SK2173	A	Harris
HUF75337P3	55	0.014	62		TO-220AB	2SK2312	B	Harris
HUF75337S3	55	0.014	62		TO-262	2SK2376	A	Harris
HUF75337S3S/T	55	0.014	62		TO-263	2SK2376	A	Harris
HUF75339G3	55	0.012	70		TO-247	2SK2313	A	Harris
HUF75339P3	55	0.012	70		TO-220AB			Harris
HUF75339S3	55	0.012	70		TO-262			Harris
HUF75339S3S/T	55	0.012	70		TO-263			Harris
HUF75343G3	55	0.009	75		TO-247	2SK2313	A	Harris
HUF75343P3	55	0.008	75		TO-220AB	2SK2985	B	Harris
HUF75343S3	55	0.009	75		TO-262			Harris
HUF75343S3S/T	55	0.009	75		TO-263			Harris
HUF75344G3	55	0.008	75		TO-247	2SK2987	A	Harris
HUF75344PS	55	0.008	75		TO-220AB	2SK2985	B	Harris
HUF75344S3	55	0.008	75		TO-262	2SK2986	A	Harris
HUF75344S3S/T	55	0.008	75		TO-263	2SK2986	A	Harris
HUF75345G3	55	0.007	75		TO-247	2SK2987	A	Harris
HUF75345P3	55	0.007	75		TO-220	2SK2985	B	Harris
HUF75345S3	55	0.007	75		TO-262	2SK2986	A	Harris
HUF75345S3S/T	55	0.007	75		TO-263	2SK2986	A	Harris
IRC530	100	0.16	14	88	TO-220 5PIN			IR
IRC540	100	0.077	28	150	TO-220 5PIN			IR
IRC630	200	0.4	9	74	TO-220 5PIN			IR
IRC634	250	0.45	8.1	74	TO-220 5PIN			IR
IRC640	200	0.18	18	125	TO-220 5PIN			IR
IRC644	250	0.28	14	125	TO-220 5PIN			IR
IRC730	400	1	5.5	74	TO-220 5PIN			IR
IRC740	400	0.55	10	125	TO-220 5PIN			IR
IRC830	500	1.5	4.5	74	TO-220 5PIN			IR
IRC840	500	0.85	8	125	TO-220 5PIN			IR
IRCP054	60	0.014	70	230	TO-3P 5PIN			IR
IRCZ24	60	0.1	17	60	TO-220 5PIN			IR
IRCZ34	60	0.05	30	88	TO-220 5PIN			IR
IRCZ44	60	0.028	50	150	TO-220 5PIN			IR
IRF1010	55	0.014	75	150	TO-220AB	2SK2312	B	IR
IRF1010E	60	0.012	81	170	TO-220AB	2SK2985	B	IR
IRF1010EL	60	0.012	83	170	TO-262	2SK2986	A	IR



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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRF1010ES	60	0.012	83	170	D2PAK	2SK2986	A	IR
IRF1010N	55	0.012	72	130	TO-220AB			IR
IRF1010NL	55	0.011	84	170	TO-262			IR
IRF1010NS	55	0.011	84	3.8	D2PAK			IR
IRF1010S	55	0.014	75	150	D2PAK	2SK2376	A	IR
IRF1310	100	0.04	43	150	TO-220AB	2SK2466	B	IR
IRF1310N	100	0.036	36	120	TO-220AB			IR
IRF1310NS	100	0.036	36	120	D2PAK			IR
IRF1310S	100	0.04	43	150	D2PAK	2SK2466	B	IR
IRF2807	75	0.013	71	150	TO-220AB			IR
IRF2807L	75	0.013	71	150	TO-262			IR
IRF2807S	75	0.013	71	150	D2PAK			IR
IRF3205	55	0.008	98	150	TO-220AB	2SK2985	B	IR
IRF3205L	55	0.008	110	200	TO-262	2SK2986	A	IR
IRF3205S	55	0.008	110	200	D2PAK	2SK2986	A	IR
IRF3315	150	0.082	21	94	TO-220AB			IR
IRF3315L	150	0.082	21	94	TO-262			IR
IRF3315S	150	0.082	21	94	D2PAK			IR
IRF3415	150	0.042	37	150	TO-220AB			IR
IRF3415S	150	0.042	37	150	D2PAK			IR
IRF3710	100	0.028	46	150	TO-220AB			IR
IRF3710S	100	0.028	46	150	D2PAK			IR
IRF4905	-55	0.02	64	150	TO-220AB			IR
IRF4905L	-55	0.02	-74	200	TO-262			IR
IRF4905S	-55	0.02	-74	3.8	D2PAK			IR
IRF510	100	0.54	5.6	43	TO-220AB	2SK2399	B	IR
IRF510A	100	0.4	5.6	33	TO-220AB	2SK2399	B	Samsung
IRF510S	100	0.54	5.6	43	D2PAK	2SK2399	B	IR
IRF511(R)	80	0.54	5.6		TO-220AB	2SK2399	B	Harris
IRF512(R)	100	0.74	4.9		TO-220AB	2SK2399	B	Harris
IRF513(R)	80	0.74	4.9		TO-220AB	2SK2399	B	Harris
IRF520	100	0.27	9.2	60	TO-220AB	2SK2399	B	IR
IRF520	100	0.27	10		TO-220AB	2SK2399	B	ST
IRF520A	100	0.2	9.2	45	TO-220AB	2SK2399	B	Samsung
IRF520FI	100	0.27	7		TO-220FP	2SK2399	B	ST
IRF520N	100	0.2	9.5	47	TO-220AB	2SK2399	B	IR
IRF520NS	100	0.2	9.5	47	D2PAK	2SK2399	B	IR
IRF520S	100	0.27	9.2	60	D2PAK	2SK2399	B	IR
IRF521(R)	80	0.27	9.2		TO-220AB	2SK2399	B	Harris
IRF5210	-100	0.06	-35	150	TO-220AB			IR
IRF5210S	-100	0.06	-35	150	D2PAK			IR
IRF522(R)	100	0.36	8		TO-220AB			Harris
IRF523(R)	80	0.36	8		TO-220AB	2SK2399	B	Harris
IRF530	100	0.16	14	88	TO-220AB	2SK2314	A	IR
IRF530	100	0.16	16		TO-220AB	2SK2314	A	ST
IRF5305	-55	0.06	-31	110	TO-220AB	2SJ349	B	IR
IRF5305L	-55	0.06	-31	110	TO-262	2SJ401	A	IR
IRF5305S	-55	0.06	-31	110	D2PAK	2SJ401	A	IR
IRF530A	100	0.11	14	55	TO-220AB	2SK2314	A	Samsung
IRF530FI	100	0.16	10		TO-220FP	2SK2391	A	ST

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRF530N	100	0.11	15	60	TO-220AB	2SK2314	A	IR
IRF530NS	100	0.11	15	63	D2PAK	2SK2789	A	IR
IRF530S	100	0.16	14	88	D2PAK	2SK2789	A	IR
IRF531(R)	80	0.16	14		TO-220AB	2SK2314	A	Harris
IRF532(R)	100	0.23	12		TO-220AB	2SK2399	B	Harris
IRF533(R)	80	0.23	12		TO-220AB	2SK2314	A	Harris
IRF540	100	0.077	28	150	TO-220AB	2SK2314	A	IR
IRF540	100	0.077	30		TO-220AB	2SK2314	A	ST
IRF540A	100	0.052	28	107	TO-220AB	2SK2466	B	Samsung
IRF540FI	100	0.077	16		TO-220FP	2SK2391	A	ST
IRF540N	100	0.052	27	94	TO-220AB	2SK2466	B	IR
IRF540NS	100	0.052	27	110	D2PAK	2SK2466	B	IR
IRF540S	100	0.077	28	150	D2PAK	2SK2789	A	IR
IRF541(R)	80	0.077	28		TO-220AB	2SK2314	A	Harris
IRF542(R)	100	0.1	25		TO-220AB	2SK2314	A	Harris
IRF543(R)	80	0.1	25		TO-220AB	2SK2314	A	Harris
IRF550A	100	0.04	40	167	TO-220AB	2SK2466	B	Samsung
IRF610	200	1.5	3.3	36	TO-220AB	2SK2381	B	IR
IRF610A	200	1.5	3.3	38	TO-220AB	2SK2381	B	Samsung
IRF610S	200	1.5	3.3	36	D2PAK	2SK2920	B	IR
IRF611(R)	150	1.5	3.3		TO-220AB	2SK2381	B	Harris
IRF612(R)	200	2.4	2.6		TO-220AB	2SK2381	B	Harris
IRF613(R)	150	2.4	2.6		TO-220AB	2SK2381	B	Harris
IRF614	250	2	2.7	36	TO-220AB	2SK2840	B	IR
IRF614A	250	2	2.8	40	TO-220AB	2SK2840	B	Samsung
IRF614S	250	2	2.7	36	D2PAK			IR
IRF620	200	0.8	5.2	50	TO-220AB	2SK2381	B	IR
IRF620	200	0.8	7		TO-220AB	2SK2381	B	ST
IRF620A	200	0.8	5	47	TO-220AB	2SK2381	B	Samsung
IRF620FI	200	0.8	4.3		TO-220FP	2SK2381	B	ST
IRF620S	200	0.8	5.2	50	D2PAK	2SK2920	B	IR
IRF621(R)	150	0.8	5		TO-220AB	2SK2381	B	Harris
IRF6215	-150	0.29	-11	83	TO-220AB			IR
IRF622(R)	200	1.2	4		TO-220AB	2SK2381	B	Harris
IRF623(R)	150	1.2	4		TO-220AB	2SK2381	B	Harris
IRF624	250	1.1	4.4	50	TO-220AB	2SK2840	B	IR
IRF624A	250	1.1	4.1	49	TO-220AB	2SK2840	B	Samsung
IRF624S	250	1.1	4.4	50	D2PAK			IR
IRF625	250	1.1	3.8		TO-220AB	2SK2840	B	Harris
IRF626	275	0.68	6.5		TO-220AB			Harris
IRF627	275	1.1	3.8		TO-220AB			Harris
IRF630	200	0.4	9	74	TO-220AB	YTA630	A	IR
IRF630A	200	0.4	9	72	TO-220AB	YTA630	A	Samsung
IRF630S	200	0.4	9	74	D2PAK	2SK2401	A	IR
IRF631(R)	150	0.4	9		TO-220AB	2SK2350	B	Harris
IRF632(R)	200	0.4	9		TO-220AB	YTA630	A	Harris
IRF633(R)	150	0.6	8		TO-220AB	2SK2350	B	Harris
IRF634	250	0.45	8.1	74	TO-220AB	2SK2914	A	IR
IRF634A	250	0.45	8.1	74	TO-220AB	2SK2914	A	Samsung
IRF634S	250	0.45	8.1	74	D2PAK	2SK2598	A	IR

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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRF635	250	0.45	8.1		TO-220AB	2SK2914	A	Harris
IRF636	275	0.34	13		TO-220AB			Harris
IRF637	275	0.45	8.1		TO-220AB			Harris
IRF640	200	0.18	18	125	TO-220AB	YTA640	A	IR
IRF640A	200	0.18	18	139	TO-220AB	YTA640	A	Samsung
IRF640S	200	0.18	18	125	D2PAK	2SK2401	A	IR
IRF641(R)	150	0.18	18		TO-220AB	2SK2382	B	Harris
IRF642(R)	200	0.18	18		TO-220AB	2SK2382	B	Harris
IRF643(R)	150	0.22	16		TO-220AB	2SK2382	B	Harris
IRF644	250	0.28	14	125	TO-220AB	2SK2508	B	IR
IRF644A	250	0.28	14	139	TO-220AB	2SK2508	B	Samsung
IRF644S	250	0.28	14	125	D2PAK	2SK2598	A	IR
IRF645	250	0.28	14		TO-220AB	2SK2508	B	Harris
IRF646	275	0.28	15		TO-220AB			Harris
IRF647	275	0.28	14		TO-220AB			Harris
IRF650A	200	0.085	28	156	TO-220AB			Samsung
IRF654A	250	0.14	21	156	TO-220AB			Samsung
IRF710	400	3.6	2	36	TO-220AB	2SK2862	B	IR
IRF7101	20	0.1	3.5	2	SOP-8(Dual)	TPC8202	A	IR
IRF7102	50	0.3	2	2	SOP-8(Dual)	TPC8205	A	IR
IRF7103	50	0.13	3	2	SOP-8(Dual)	TPC8205	A	IR
IRF7104	-20	0.25	2.3	2	SOP-8(Dual)	TPC8302	A	IR
IRF7105	25	0.1/0.25	3.5/-2.3	2	SOP-8(P&N)			IR
IRF7106	20	0.125/0.25	3/-2.5	2	SOP-8(P&N)			IR
IRF7107	20	0.125/0.16	3/-2.8	2	SOP-8(P&N)			IR
IRF710A	400	3.6	2	36	TO-220AB	2SK2679	B	Samsung
IRF710S	400	3.6	2	36	D2PAK			IR
IRF711(R)	350	3.6	2		TO-220AB	2SK2862	B	Harris
IRF712(R)	400	5	1.7		TO-220AB	2SK2862	B	Harris
IRF713(R)	350	5	1.7		TO-220AB	2SK2862	B	Harris
IRF720	400	1.8	3.3	50	TO-220AB	2SK2679	B	IR
IRF7201	30	0.03	7	2.5	SOP-8(Single)	TPC8001	A	IR
IRF7202	-20	0.25	2.5	2.5	SOP-8(Single)	TPC8102	A	IR
IRF7203	-20	0.1	4.3	2.5	SOP-8(Single)	TPC8102	A	IR
IRF7204	-20	0.06	5.3	2.5	SOP-8(Single)	TPC8102	A	IR
IRF7205	-30	0.07	-4.6	2.5	SOP-8(Single)	TPC8102	A	IR
IRF7205	-30	0.07	5.3	2.5	SOP-8(Single)	TPC8104-H	A	IR
IRF720A	400	1.8	3.3	46	TO-220AB	2SK2679	B	Samsung
IRF720S	400	1.8	3.3	50	D2PAK	2SK2838	A	IR
IRF721(R)	350	1.8	3.3		TO-220AB	2SK2679	B	Harris
IRF722(R)	400	2.5	2.8		TO-220AB	2SK2862	B	Harris
IRF723(R)	350	2.5	2.8		TO-220AB	2SK2862	B	Harris
IRF730	400	1	5.5	74	TO-220AB	2SK2679	B	IR
IRF7301	20	0.05	4.3	1.4	SOP-8(Dual)	TPC8202	A	IR
IRF7303	30	0.05	4	1.4	SOP-8(Dual)	TPC8201	A	IR
IRF7304	-20	0.09	3.6	1.4	SOP-8(Dual)	TPC8302	A	IR
IRF7306	-30	0.1	3	1.4	SOP-8(Dual)	TPC8301	A	IR
IRF7307	20/-20	0.05/0.09	4.3/3.6	1.4	SOP-8(P&N)			IR
IRF7309	30/-30	0.05/0.1	4.0/3.0	1.4	SOP-8(P&N)	TPC8401	A	IR
IRF730A	400	1	5.5	73	TO-220AB	2SK2679	B	Samsung

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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRF730S	400	1	5.5	74	D2PAK	2SK2838	A	IR
IRF731(R)	350	1	5.5		TO-220AB	2SK2679	B	Harris
IRF7311	20	0.029	6.6	2	SOP-8(Dual)	TPC8204	A	IR
IRF7313	30	0.029	6.5	2	SOP-8(Dual)	TPC8203	A	IR
IRF7314	-20	0.058	-5.3	2	SOP-8(Dual)	TPC8302	A	IR
IRF7316	-30	0.058	-4.9	2	SOP-8(Dual)	TPC8303	A	IR
IRF7317	20/-20	0.029/0.058	6.6/-5.3	2	SOP-8(P&N)			IR
IRF7319	30/-30	0.029/0.058	6.5/-4.9	2	SOP-8(P&N)			IR
IRF732(R)	400	1.5	4.5		TO-220AB	2SK2679	B	Harris
IRF733(R)	350	1.5	4.5		TO-220AB	2SK2679	B	Harris
IRF7333	30	0.1/0.05	3.5/4.9	2	SOP-8(Dual)			IR
IRF734	450	1.2	4.9	74	TO-220AB	2SK2542	A	IR
IRF7343	55/-55	0.06/0.105	4.7/3.4		SOP-8(P&N)			IR
IRF737LC	300	0.75	6.1	74	TO-220AB			IR
IRF7389	30/-30	0.029/0.058	7.3/-5.3		SOP-8(P&N)	TPC8401	A	IR
IRF740	400	0.55	10	125	TO-220AB	2SK2841	A	IR
IRF7401	20	0.022	8.7	2.5	SOP-8(Single)	TPC8001	A	IR
IRF7403	30	0.022	8.5	2.5	SOP-8(Single)	TPC8001	A	IR
IRF7404	-20	0.04	-6.7	2.5	SOP-8(Single)	TPC8102	A	IR
IRF7406	-30	0.045	4.7	1.6	SOP-8(Single)	TPC8105-H	A	IR
IRF740A	400	0.55	10	134	TO-220AB	2SK2841	A	Samsung
IRF740LC	400	0.55	10	125	TO-220AB	2SK2841	A	IR
IRF740S	400	0.55	10	125	D2PAK	2SK2949	A	IR
IRF741(R)	350	0.55	10		TO-220AB	2SK2841	A	Harris
IRF7413	30	0.011	13	2.5	SOP-8(Single)	TPC8003	A	IR
IRF7413A	30	0.0135	12	2.5	SOP-8(Single)	TPC8005-H	A	IR
IRF7416	-30	0.02	8.8	1	SOP-8(Single)	TPC8106-H	A	IR
IRF742(R)	400	0.8	8		TO-220AB	2SK2841	A	Harris
IRF7421D1	30	0.035	6.4		SOP-8(N&SBD)			IR
IRF7422D2	-20	0.09	-4.6		SOP-8(P&SBD)			IR
IRF743(R)	350	0.8	8		TO-220AB	2SK2542	A	Harris
IRF744	450	0.63	8.8	125	TO-220AB	2SK2542	A	IR
IRF7501	20	0.135	1.7	0.63	Micro-8			IR
IRF7503	30	0.135	1.7	0.63	Micro-8			IR
IRF7504	-20	0.27	1.2	0.63	Micro-8	SSM8J01FU	A	IR
IRF7506	-30	0.27	1.2	0.63	Micro-8			IR
IRF7507	20/-20	0.135/0.27	1.7/1.3	0.63	Micro-8			IR
IRF7509	30/-30	0.135/0.27	1.7/1.2	0.63	Micro-8			IR
IRF750A	400	0.3	15	156	TO-220AB			Samsung
IRF7601	20	0.035	3.8	0.78	Micro-8			IR
IRF7603	30	0.035	3.7	0.78	Micro-8			IR
IRF7604	-20	0.09	2.4	0.78	Micro-8			IR
IRF7606	-30	0.09	2.4	0.78	Micro-8			IR
IRF7805	30	0.011	13		SOP-8(Single)	TPC8007-H	A	IR
IRF7807	30	0.025	8.3		SOP-8(Single)	TPC8001	A	IR
IRF820	500	3	2.5	50	TO-220AB	2SK2862	B	IR
IRF820A	500	3	2.5	49	TO-220AB	2SK2661	A	Samsung
IRF820S	500	3	2.5	50	D2PAK			IR
IRF821(R)	450	3	2.5		TO-220AB	2SK2862	B	Harris
IRF822	500	4	2.8	75	TO-220AB	2SK2862	B	ST

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRF822(R)	500	4	2.2		TO-220AB	2SK2862	B	Harris
IRF822FI	500	4	1.9	35	TO-220IS	2SK2862	A	ST
IRF823(R)	450	4	2.2		TO-220AB	2SK2862	B	Harris
IRF830	500	1.5	4.5	74	TO-220AB	2SK2661	A	IR
IRF830A	500	1.5	4.5	73	TO-220AB	2SK2661	A	Samsung
IRF830S	500	1.5	4.5	74	D2PAK	2SK2991	A	IR
IRF831	450	1.5	4.5	100	TO-220AB	2SK2661	A	ST
IRF831(R)	450	1.5	4.5		TO-220AB	2SK2661	A	Harris
IRF831FI	450	1.5	3	35	TO-220IS	2SK2662	A	ST
IRF832(R)	500	2	4		TO-220AB	2SK2661	A	Harris
IRF833(R)	450	2	4		TO-220AB	2SK2661	A	Harris
IRF840	500	0.85	8	125	TO-220AB	2SK2542	A	IR
IRF840A	500	0.85	8	134	TO-220AB	YTA840	A	Samsung
IRF840LC	500	0.85	8	125	TO-220AB	2SK2542	A	IR
IRF840S	500	0.85	8	125	D2PAK	2SK2776	A	IR
IRF841	450	0.85	8	125	TO-220AB	2SK2542	A	ST
IRF841(R)	450	0.85	8		TO-220AB	2SK2542	A	Harris
IRF841FI	450	0.85	4.5	40	TO-220IS	2SK2543	A	ST
IRF842(R)	500	1.1	7		TO-220AB	2SK2542	A	Harris
IRF843(R)	450	1.1	7		TO-220AB	2SK2542	A	Harris
IRF9410	30	0.03	7	2.5	SOP-8(Single)	TPC8001	A	IR
IRF9510	-100	1.2	4	43	TO-220AB			IR
IRF9510S	-100	1.2	4	43	D2PAK			IR
IRF9511	-60	1.2	3		TO-220AB	2SJ438	B	Harris
IRF9512	-100	1.2	3		TO-220AB			Harris
IRF9513	-60	1.9	2.5		TO-220AB	2SJ438	B	Harris
IRF9520	-100	0.6	6.8	60	TO-220AB			IR
IRF9520NL	-100	0.48	-6.7	47	TO-262			IR
IRF9520NS	-100	0.48	-6.7	47	D2PAK			IR
IRF9520S	-100	0.6	6.8	60	D2PAK			IR
IRF9521	-60	0.6	6		TO-220AB	2SJ438	B	Harris
IRF9522	-100	0.8	5		TO-220AB			Harris
IRF9523	-60	0.8	5		TO-220AB	2SJ438	B	Harris
IRF9530	-100	0.3	12	88	TO-220AB	2SJ380	B	IR
IRF9530N	-100	0.2	-13	75	TO-220AB	2SJ380	B	IR
IRF9530NL	-100	0.2	-14	75	TO-262	2SJ380	B	IR
IRF9530NS	-100	0.2	-14	75	D2PAK			IR
IRF9530S	-100	0.3	12	88	D2PAK	2SJ412	A	IR
IRF9531	-60	0.3	12		TO-220AB	2SJ304	B	Harris
IRF9532	-100	0.4	10		TO-220AB	2SJ380	B	Harris
IRF9533	-60	0.4	10		TO-220AB	2SJ304	B	Harris
IRF9540	-100	0.2	19	150	TO-220AB	2SJ380	B	IR
IRF9540N	-100	0.117	-19	94	TO-220AB	2SJ464	B	IR
IRF9540NS	-100	0.117	-19	94	D2PAK			IR
IRF9540S	-100	0.2	19	150	D2PAK	2SJ412	A	IR
IRF9541	-60	0.2	19		TO-220AB	2SJ349	B	Harris
IRF9542	-100	0.3	15		TO-220AB	2SJ380	B	Harris
IRF9543	-60	0.3	15		TO-220AB	2SJ304	B	Harris
IRF9610	-200	3	1.8	20	TO-220AB	2SJ407	B	IR
IRF9610S	-200	3	1.8	20	D2PAK			IR

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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRF9620	-200	1.5	3.5	40	TO-220AB	2SJ407	B	IR
IRF9620S	-200	1.5	3.5	40	D2PAK			IR
IRF9621	-150	1.5	3.5		TO-220AB	2SJ407	B	Harris
IRF9622	-200	2.4	3		TO-220AB	2SJ407	B	Harris
IRF9623	-150	2.4	3		TO-220AB	2SJ407	B	Harris
IRF9630	-200	0.8	6.5	74	TO-220AB	2SJ407	B	IR
IRF9630S	-200	0.8	6.5	74	D2PAK			IR
IRF9631	-150	0.8	6.5		TO-220AB	2SJ407	B	Harris
IRF9632	-200	1.2	5.5		TO-220AB	2SJ407	B	Harris
IRF9633	-150	1.2	5.5		TO-220AB	2SJ407	B	Harris
IRF9640	-200	0.5	11	125	TO-220AB	2SJ513	B	IR
IRF9640S	-200	0.5	11	125	D2PAK	2SJ513	B	IR
IRF9641	-150	0.5	11		TO-220AB	2SJ513	B	Harris
IRF9642	-200	0.7	9		TO-220AB	2SJ515	B	Harris
IRF9643	-150	0.7	9		TO-220AB	2SJ515	B	Harris
IRF9952	30/-30	0.1/0.25	3.5/-2.3	2	SOP-8(P&N)			IR
IRF9953	-30	0.25	-2.3	2	SOP-8(Dual)			IR
IRF9956	30	0.1	3.5	2	SOP-8(Dual)			IR
IRF9Z14	-60	0.5	6.7	43	TO-220AB	2SJ438	B	IR
IRF9Z14S	-60	0.5	6.7	43	D2PAK	2SJ377	B	IR
IRF9Z24	-60	0.28	11	60	TO-220AB	2SJ438	B	IR
IRF9Z24N	-55	0.175	-12	45	TO-220AB	2SJ438	B	IR
IRF9Z24S	-60	0.28	11	60	D2PAK	2SJ312	A	IR
IRF9Z34	-60	0.14	18	88	TO-220AB	2SJ349	B	IR
IRF9Z34N	-55	0.1	-17	56	TO-220AB			IR
IRF9Z34S	-60	0.14	18	88	D2PAK	2SJ401	A	IR
IRFBC10LC	600	10	1.2	36	TO-220AB	2SK3067	B	IR
IRFBC20	600	4.4	2.2	50	TO-220AB	2SK3067	B	IR
IRFBC20L	600	4.4	2.2	50	TO-262	2SK2865	B	IR
IRFBC20S	600	4.4	2.2	50	D2PAK	2SK2865	B	IR
IRFBC30	600	2.2	3.6	74	TO-220AB	2SK3085	A	IR
IRFBC30L	600	2.2	3.6	74	TO-262	2SK2777	A	IR
IRFBC30S	600	2.2	3.6	74	D2PAK	2SK2777	A	IR
IRFBC40	600	1.2	6.2	125	TO-220AB	2SK2544	A	IR
IRFBC40L	600	1.2	6.2	130	TO-262	2SK2777	A	IR
IRFBC40LC	600	1.2	6.2	125	TO-220AB	2SK2544	A	IR
IRFBC40S	600	1.2	6.2	130	D2PAK	2SK2777	A	IR
IRFBC42R	600	1.6	5.4		TO-220AB	2SK2544	A	Harris
IRFBE20	800	6.5	1.8	54	TO-220AB	2SK2603	A	IR
IRFBE30	800	3	4.1	125	TO-220AB	2SK2603	A	IR
IRFBF20	900	8	1.7	54	TO-220AB	2SK2733	A	IR
IRFBF20L	900	8	1.7	54	TO-262	2SK2845	A	IR
IRFBF20S	900	8	1.7	54	D2PAK			IR
IRFBF30	900	3.7	3.6	125	TO-220AB	2SK2608	A	IR
IRFBG20	1000	11	1.4	54	TO-220AB	2SK1119	A	IR
IRFBG30	1000	5	3.1	125	TO-220AB	2SK1119	A	IR
IRFD014	60	0.2	1.7	1.3	DIP			IR
IRFD014	60	0.2	1.7	1.3	HEXDIP			IR
IRFD024	60	0.1	2.5	1.3	DIP			IR
IRFD024	60	0.1	2.5	1.3	HEXDIP			IR

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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFD110	100	0.54	1	1.3	DIP			IR
IRFD110	100	0.54	1	1.3	HEXDIP			IR
IRFD111(R)	80	0.6	1		DIP			Harris
IRFD112(R)	100	0.8	0.8		DIP			Harris
IRFD113(R)	80	0.8	0.8		DIP			Harris
IRFD120	100	0.27	1.3	1.3	DIP			IR
IRFD120	100	0.27	1.3	1.3	HEXDIP			IR
IRFD121(R)	80	0.3	1.3		DIP			Harris
IRFD122(R)	100	0.4	1.1		DIP			Harris
IRFD123(R)	80	0.4	1.1		DIP			Harris
IRFD1Z0	100	2.4	0.5	1.3	DIP			IR
IRFD1Z1	60	2.4	0.5		DIP			Harris
IRFD1Z2	100	3.2	0.4		DIP			Harris
IRFD1Z3	60	3.2	0.4		DIP			Harris
IRFD210	200	1.5	0.6	1.3	DIP			IR
IRFD210	200	1.5	0.6	1.3	HEXDIP			IR
IRFD211(R)	150	1.5	0.6		DIP			Harris
IRFD212(R)	200	2.4	0.45		DIP			Harris
IRFD213(R)	150	2.4	0.45		DIP			Harris
IRFD214	250	2	0.57	1.3	DIP			IR
IRFD214	250	2	0.57	1.3	HEXDIP			IR
IRFD220	200	0.8	0.8	1	DIP			IR
IRFD220	200	0.8	0.8	1.3	HEXDIP			IR
IRFD221(R)	150	0.8	0.8		DIP			Harris
IRFD222(R)	200	1.2	0.7		DIP			Harris
IRFD223(R)	150	1.2	0.7		DIP			Harris
IRFD224	250	1.1	0.76	1.3	DIP			IR
IRFD224	250	1.1	0.76	1.3	HEXDIP			IR
IRFD2Z0	200	5	0.32		DIP			Harris
IRFD2Z1	150	5	0.32		DIP			Harris
IRFD2Z2	200	6.5	0.3		DIP			Harris
IRFD2Z3	150	6.5	0.3		DIP			Harris
IRFD310	400	3.6	0.42	1.3	DIP			IR
IRFD310	400	3.6	0.42	1.3	HEXDIP			IR
IRFD311(R)	350	3.6	0.4		DIP			Harris
IRFD312(R)	400	5	0.3		DIP			Harris
IRFD313(R)	350	5	0.3		DIP			Harris
IRFD320	400	1.8	0.6	1.3	DIP			IR
IRFD320	400	1.8	0.6	1.3	HEXDIP			IR
IRFD321(R)	350	1.8	0.5		DIP			Harris
IRFD322(R)	400	2.5	0.4		DIP			Harris
IRFD323(R)	350	2.5	0.4		DIP			Harris
IRFD420	500	3	0.46	1.3	DIP			IR
IRFD420	500	3	0.46	1.3	HEXDIP			IR
IRFD620	600	4.4	0.32	1.3	DIP			IR
IRFD9014	-60	0.5	1.1	1.3	DIP	2SJ360	B	IR
IRFD9024	-60	0.28	1.6	1.3	DIP	2SJ377	B	IR
IRFD9110	-100	1.2	0.7	1.3	DIP			IR
IRFD9113	-60	1.6	0.6		DIP			Harris
IRFD9120	-100	0.6	1	1.3	DIP			IR

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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFD9123	-60	0.8	0.8		DIP			Harris
IRFD9210	-200	3	0.4	1	DIP			IR
IRFD9220	-200	1.5	0.56	1	DIP			IR
IRFD9223	-150	2.4	0.45		DIP			Harris
IRFDC10LC	600	10	0.25	1.3	DIP			IR
IRFDC20	600	4.4	0.32	1.3	HEXDIP			IR
IRFI1010G	55	0.14	43	50	TO-220IS			IR
IRFI1010N	55	0.012	44	47	TO-220IS			IR
IRFI1310G	100	0.04	21	50	TO-220IS	2SK2466	A	IR
IRFI1310N	100	0.036	22	45	TO-220IS			IR
IRFI3205	55	0.008	56	48	TO-220IS	2SK2985	A	IR
IRFI3710	100	0.025	28	48	TO-220IS			IR
IRFI4905	-55	0.02	-41	63	TO-220IS			IR
IRFI510A	100	0.4	5.6	33	I2-PAK	2SK2399	B	Samsung
IRFI510G	100	0.54	4.5	27	TO-220IS	2SK2399	B	IR
IRFI510G	100	0.54	4.5	27	TO-220IS			IR
IRFI520A	100	0.2	9.2	45	I2-PAK	2SK2399	B	Samsung
IRFI520G	100	0.27	4.2	37	TO-220IS	2SK2399	B	IR
IRFI520N	100	0.2	7.2	27	TO-220IS	2SK2399	B	IR
IRFI5210	-100	0.06	-20	48	TO-220IS			IR
IRFI530A	100	0.11	14	55	I2-PAK	2SK2789	A	Samsung
IRFI530G	100	0.16	9.7	42	TO-220IS	2SK2391	A	IR
IRFI530N	100	0.11	11	33	TO-220IS	2SK2391	A	IR
IRFI540A	100	0.052	28	107	I2-PAK	2SK2466	B	Samsung
IRFI540G	100	0.077	17	48	TO-220IS	2SK2391	A	IR
IRFI540N	100	0.052	18	42	TO-220IS	2SK2466	A	IR
IRFI550A	100	0.04	40	167	I2-PAK	2SK2466	B	Samsung
IRFI610A	200	1.5	3.3	38	I2-PAK	2SK2920	B	Samsung
IRFI614A	250	2	2.8	40	I2-PAK			Samsung
IRFI614G	250	2	2.1	23	TO-220IS	2SK2840	A	IR
IRFI620A	200	0.8	5	47	I2-PAK	2SK2920	B	Samsung
IRFI620G	200	0.8	4.1	30	TO-220IS	2SK2381	A	IR
IRFI624A	250	1.1	4.1	49	I2-PAK			Samsung
IRFI624G	250	1.1	3.4	30	TO-220IS	2SK2840	A	IR
IRFI630A	200	0.4	9	72	I2-PAK	2SK2401	A	Samsung
IRFI630G	200	0.4	5.9	35	TO-220IS	2SK2350	A	IR
IRFI634A	250	0.45	8.1	74	I2-PAK	2SK2598	A	Samsung
IRFI634G	250	0.45	5.6	35	TO-220IS	2SK2417	A	IR
IRFI640A	200	0.18	18	139	I2-PAK	2SK2401	A	Samsung
IRFI640G	200	0.18	9.8	40	TO-220IS	2SK2382	A	IR
IRFI644A	250	0.28	14	139	I2-PAK	2SK2598	A	Samsung
IRFI644G	250	0.28	7.9	40	TO-220IS	2SK2508	A	IR
IRFI710A	400	3.6	2	36	I2-PAK	2SK2838	A	Samsung
IRFI720A	400	1.8	3.3	46	I2-PAK	2SK2838	A	Samsung
IRFI720G	400	1.8	2.6	30	TO-220IS	2SK2679	A	IR
IRFI730A	400	1	5.5	73	I2-PAK	2SK2838	A	Samsung
IRFI730G	400	1	3.7	35	TO-220IS	2SK2679	A	IR
IRFI734G	450	1.2	3.4	35	TO-220IS	2SK2543	A	IR
IRFI740A	400	0.55	10	134	I2-PAK	2SK2949	A	Samsung
IRFI740G	400	0.55	5.4	40	TO-220IS	2SK2952	A	IR



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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFI740GLC	400	0.55	6	40	TO-220IS	2SK2952	A	IR
IRFI744G	450	0.63	4.9	40	TO-220IS	2SK2952	A	IR
IRFI820A	500	3	2.5	49	I2-PAK			Samsung
IRFI820G	500	3	2.1	30	TO-220IS	2SK2862	A	IR
IRFI830A	500	1.5	4.5	73	I2-PAK	2SK2991	A	Samsung
IRFI830G	500	1.5	3.1	35	TO-220IS	2SK2662	A	IR
IRFI840A	500	0.85	8	134	I2-PAK	2SK2776	A	Samsung
IRFI840G	500	0.85	4.6	40	TO-220IS	2SK2543	A	IR
IRFI840GLC	500	0.85	4.8	40	TO-220IS	2SK2543	A	IR
IRFI9520G	-100	0.6	5.2	37	TO-220IS			IR
IRFI9530G	-100	0.3	7.7	42	TO-220IS	2SJ380	A	IR
IRFI9540G	-100	0.2	11	48	TO-220IS	2SJ380	A	IR
IRFI9620G	-200	1.5	3	30	TO-220IS	2SJ407	A	IR
IRFI9630G	-200	0.8	4.3	35	TO-220IS	2SJ407	A	IR
IRFI9634G	-250	1	-4.1	35	TO-220IS	2SJ512	A	IR
IRFI9640G	-200	0.5	6.1	40	TO-220IS	2SJ513	A	IR
IRFI9Z14G	-60	0.5	5.3	27	TO-220IS	2SJ438	A	IR
IRFI9Z24G	-60	0.28	8.5	37	TO-220IS	2SJ438	A	IR
IRFI9Z24N	-55	0.175	-9.5	29	TO-220IS	2SJ438	A	IR
IRFI9Z34G	-60	0.14	12	42	TO-220IS	2SJ304	A	IR
IRFI9Z34N	-55	0.1	-14	37	TO-220IS			IR
IRFIBC20G	600	4.4	1.7	30	TO-220IS	2SK3067	A	IR
IRFIBC30G	600	2.2	2.5	35	TO-220IS	2SK2750	A	IR
IRFIBC40G	600	1.2	3.5	40	TO-220IS	2SK2545	A	IR
IRFIBC40GLC	600	1.2	4	40	TO-220IS	2SK2545	A	IR
IRFIBE20G	800	6.5	1.4	30	TO-220IS	2SK2603	B	IR
IRFIBE30G	800	3	2.1	35	TO-220IS	2SK2603	B	IR
IRFIBF20G	900	8	1.2	30	TO-220IS	2SK2733	B	IR
IRFIBF30G	900	3.7	1.9	35	TO-220IS	2SK2700	B	IR
IRFIP044	60	0.028	43	100	TO-247IS	2SK2233	B	IR
IRFIP054	60	0.014	64	120	TO-247IS	2SK2313	B	IR
IRFIP140	100	0.077	23	100	TO-247IS	2SK2391	B	IR
IRFIP150	100	0.055	31	120	TO-247IS	2SK2466	B	IR
IRFIP240	200	0.18	14	83	TO-247IS	2SK2382	B	IR
IRFIP244	250	0.28	11	83	TO-247IS	2SK2508	B	IR
IRFIP250	200	0.085	22	96	TO-247IS	2SK2995	A	IR
IRFIP254	250	0.14	17	96	TO-247IS	2SK2995	A	IR
IRFIP340	400	0.55	8	83	TO-247IS	2SK2952	B	IR
IRFIP350	400	0.3	11	96	TO-247IS	2SK2917	A	IR
IRFIP440	500	0.85	6.4	83	TO-247IS	2SK2600	A	IR
IRFIP448	500	0.6	7.4	89	TO-247IS	2SK2600	A	IR
IRFIP450	500	0.4	10	96	TO-247IS	2SK2916	A	IR
IRFIP9140	-100	0.2	15	100	TO-247IS	2SJ412	B	IR
IRFIP9240	-200	0.5	8.9	83	TO-247IS	2SJ513	B	IR
IRFIZ14A	60	0.14	10	30	I2-PAK	2SK2231	B	Samsung
IRFIZ14G	60	0.2	8	27	TO-220IS	2SK2231	B	IR
IRFIZ24A	60	0.07	17	44	I2-PAK	2SK2311	A	Samsung
IRFIZ24E	60	0.071	14	29	TO-220IS	2SK2232	A	IR
IRFIZ24G	60	0.1	14	37	TO-220IS	2SK2232	A	IR
IRFIZ24N	55	0.07	13	26	TO-220IS	2SK2232	A	IR

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFIZ34A	60	0.04	30	77	I2-PAK	2SK2311	A	Samsung
IRFIZ34E	60	0.042	21	37	TO-220IS	2SK2232	A	IR
IRFIZ34G	60	0.05	20	42	TO-220IS	2SK2232	A	IR
IRFIZ34N	55	0.04	19	31	TO-220IS	2SK2232	A	IR
IRFIZ44A	60	0.024	50	126	I2-PAK	2SK2376	A	Samsung
IRFIZ44G	60	0.028	30	48	TO-220IS	2SK2385	A	IR
IRFIZ44N	55	0.024	28	38	TO-220IS	2SK2385	A	IR
IRFIZ46N	55	0.02	31	40	TO-220IS	2SK2312	A	IR
IRFIZ48G	60	0.018	37	50	TO-220IS	2SK2312	A	IR
IRFIZ48N	55	0.016	36	42	TO-220IS	2SK2312	A	IR
IRFL014	60	0.2	2.7	3.1	SOT-223	2SK2741	A	IR
IRFL110	100	0.54	1.5	3.1	SOT-223	2SK2742	A	IR
IRFL210	200	1.5	0.96	3.1	SOT-223			IR
IRFL214	250	2	0.79	3.1	SOT-223			IR
IRFL4105	55	0.045	3.7	2.1	SOT-223			IR
IRFL4310	100	0.2	1.6	2.1	SOT-223	2SK2742	A	IR
IRFL9014	-60	0.5	1.8	3.1	SOT-223			IR
IRFL9110	-100	1.2	1.1	3.1	SOT-223			IR
IRFM014A	60	0.14	2.8	2.1	SOT-223	2SK2741	A	Samsung
IRFM110A	100	0.4	1.5	2	SOT-223	2SK2742	A	Samsung
IRFM120A	100	0.2	2.3	2.4	SOT-223	2SK2742	A	Samsung
IRFM210A	200	1.5	0.77	2	SOT-223			Samsung
IRFM214A	250	2	0.64	2.1	SOT-223			Samsung
IRFM220A	200	0.8	1.13	2.4	SOT-223			Samsung
IRFM224A	250	1.1	0.92	2.5	SOT-223			Samsung
IRFP044	60	0.028	57	180	TO-247	2SK2233	A	IR
IRFP044N	55	0.02	49	100	TO-247	2SK2173	A	IR
IRFP048	60	0.018	70	190	TO-247	2SK2173	A	IR
IRFP048N	55	0.016	62	130	TO-247	2SK2173	A	IR
IRFP054	60	0.014	70	230	TO-247	2SK2313	A	IR
IRFP054N	55	0.012	72	130	TO-247	2SK2313	A	IR
IRFP064	60	0.009	70	300	TO-247	2SK2313	A	IR
IRFP064N	55	0.008	98	150	TO-247	2SK2987	A	IR
IRFP140	100	0.077	31	180	TO-247	2SK2466	B	IR
IRFP140A	100	0.052	31	131	TO-3P	2SK2466	B	Samsung
IRFP140N	100	0.052	27	94	TO-247	2SK2466	B	IR
IRFP141R	80	0.077	31		TO-247	2SK2466	B	Harris
IRFP142R	100	0.099	27		TO-247	2SK2314	B	Harris
IRFP143R	80	0.099	27		TO-247	2SK2466	B	Harris
IRFP150	100	0.055	41	230	TO-247	2SK2466	B	IR
IRFP150A	100	0.04	43	193	TO-3P	2SK2466	B	Samsung
IRFP150N	100	0.036	39	140	TO-247	2SK1381	A	IR
IRFP151(R)	60	0.055	40		TO-247	2SK2398	A	Harris
IRFP152(R)	100	0.085	34		TO-247	2SK2314	B	Harris
IRFP153(R)	60	0.085	34		TO-247	2SK2232	B	Harris
IRFP240	200	0.18	20	150	TO-247	2SK2382	B	IR
IRFP240A	200	0.18	20	180	TO-3P	2SK2382	B	Samsung
IRFP241(R)	150	0.18	18		TO-247	2SK2382	B	Harris
IRFP242R	200	0.22	16		TO-247	2SK2382	B	Harris
IRFP243R	150	0.22	16		TO-247	2SK2382	B	Harris

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFP244	250	0.28	15	150	TO-247	2SK2508	B	IR
IRFP244A	250	0.28	16	180	TO-3P	2SK2508	B	Samsung
IRFP245	250	0.28	14		TO-247	2SK2508	B	Harris
IRFP246	275	0.17	20		TO-247	2SK1486	B	Harris
IRFP247	275	0.28	14		TO-247			Harris
IRFP250	200	0.085	30	190	TO-247	2SK3176	A	IR
IRFP250A	200	0.085	32	204	TO-3P	2SK3176	A	Samsung
IRFP251(R)	150	0.085	33		TO-247	2SK2967	A	Harris
IRFP252(R)	200	0.085	30		TO-247	2SK3176	A	Harris
IRFP253(R)	150	0.12	27		TO-247	2SK2882	B	Harris
IRFP254	250	0.14	23	23	TO-247	2SK2967	A	IR
IRFP254A	250	0.14	25	221	TO-3P	2SK2967	A	Samsung
IRFP255	250	0.14	22		TO-247	2SK2967	A	Harris
IRFP256	275	0.14	23		TO-247	2SK1486	B	Harris
IRFP257	275	0.14	22		TO-247	2SK1486	B	Harris
IRFP260	200	0.055	46	280	TO-247	2SK3176	A	IR
IRFP264	250	0.075	38	280	TO-247	2SK2967	A	IR
IRFP340	400	0.55	11	150	TO-247	2SK2841	B	IR
IRFP340A	400	0.55	11	162	TO-3P	2SK2841	B	Samsung
IRFP341R	350	0.55	11		TO-247	2SK2841	B	Harris
IRFP342R	400	0.8	8.3		TO-247	2SK2841	B	Harris
IRFP343R	350	0.8	8.7		TO-247	2SK2841	B	Harris
IRFP344	450	0.63	9.5	150	TO-247	2SK2601	A	IR
IRFP350	400	0.3	16	190	TO-247	2SK2837	A	IR
IRFP350A	400	0.3	17	202	TO-3P	2SK2837	A	Samsung
IRFP350LC	400	0.3	18	190	TO-247	2SK2837	A	IR
IRFP351(R)	350	0.3	15		TO-247	2SK2837	A	Harris
IRFP352(R)	400	0.4	14		TO-247	2SK2698	A	Harris
IRFP353(R)	350	0.4	14		TO-247	2SK2698	A	Harris
IRFP354	450	0.35	14	190	TO-247	2SK2698	A	IR
IRFP360	400	0.2	23	280	TO-247	2SK1544	B	IR
IRFP360LC	400	0.2	23	280	TO-247	2SK1544	B	IR
IRFP362	400	0.25	20		TO-247	2SK2837	A	Harris
IRFP3710	100	0.028	51	180	TO-247	2SK1381	A	IR
IRFP440	500	0.85	8.8	150	TO-247	2SK2601	A	IR
IRFP440A	500	0.85	8.5	162	TO-3P	2SK2601	A	Samsung
IRFP441R	450	0.85	8		TO-247	2SK2601	A	Harris
IRFP442(R)	500	1.1	7		TO-247	2SK2600	B	Harris
IRFP443R	450	1.1	7		TO-247	2SK2600	B	Harris
IRFP448	500	0.6	11	180	TO-247	2SK2601	A	IR
IRFP450	500	0.4	14	190	TO-247	2SK2698	A	IR
IRFP450A	500	0.4	14	205	TO-3P	2SK2698	A	Samsung
IRFP450LC	500	0.4	16	190	TO-247	2SK2698	A	IR
IRFP451(R)	450	0.4	14		TO-247	2SK2698	A	Harris
IRFP452(R)	500	0.5	12		TO-247	2SK2601	A	Harris
IRFP453(R)	450	0.5	12		TO-247	2SK2601	A	Harris
IRFP460	500	0.27	20	280	TO-247	2SK2837	A	IR
IRFP460LC	500	0.27	20	280	TO-247	2SK2837	A	IR
IRFP462	500	0.35	17		TO-247	2SK2837	A	Harris
IRFP9140	-100	0.2	21	180	TO-247	2SJ464	B	IR

**Power MOSFETs Cross Reference**
**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFP9140N	-100	0.117	-21	120	TO-247	2SJ464	B	IR
IRFP9141	-50	0.2	19		TO-247	2SJ401	B	Harris
IRFP9142	-100	0.3	16		TO-247	2SJ412	B	Harris
IRFP9143	-50	0.3	16		TO-247	2SJ401	B	Harris
IRFP9150	-100	0.15	25		TO-247	2SJ464	A	Harris
IRFP9151	-50	0.15	25		TO-247	2SJ402	B	Harris
IRFP9240	-200	0.5	12	150	TO-247	2SJ513	B	IR
IRFP9241	-150	0.5	12		TO-247	2SJ513	B	Harris
IRFP9242	-200	0.7	10		TO-247	2SJ515	B	Harris
IRFP9243	-150	0.7	10		TO-247	2SJ515	B	Harris
IRFPC30	600	2.2	4.3	100	TO-247	2SK2602	A	IR
IRFPC40	600	1.2	6.8	150	TO-247	2SK2602	A	IR
IRFPC42R	600	1.6	5.9		TO-247	2SK2602	A	Harris
IRFPC48	600	0.82	8.9	170	TO-247	2SK2699	A	IR
IRFPC50	600	0.6	11	180	TO-247	2SK2699	A	IR
IRFPC50LC	600	0.6	13	180	TO-247	2SK2699	A	IR
IRFPC60	600	0.4	16	280	TO-247	2SK2915	A	IR
IRFPC60LC	600	0.4	16	280	TO-247	2SK2915	A	IR
IRFPE30	800	3	4.1	125	TO-247	2SK2603	B	IR
IRFPE40	800	2	5.4	150	TO-247	2SK2604	A	IR
IRFPE50	800	1.2	7.8	190	TO-247	2SK2607	A	IR
IRFPF30	900	3.7	3.6	125	TO-247	2SK2719	A	IR
IRFPF40	900	2.5	4.7	150	TO-247	2SK2610	A	IR
IRFPF50	900	1.6	6.7	190	TO-247	2SK2611	A	IR
IRFPG30	1000	5	3.1	125	TO-247	2SK1359	A	IR
IRFPG40	1000	3.5	4.3	150	TO-247	2SK1359	A	IR
IRFPG42	1000	4.2	3.9		TO-247	2SK1359	A	Harris
IRFPG50	1000	2	6.1	190	TO-247	2SK1365	A	IR
IRFR014	60	0.2	7.7	25	D-PAK	2SK2231	A	IR
IRFR014A	60	0.14	8.2	18	D-PAK	2SK2231	A	Samsung
IRFR024	60	0.1	14	42	D-PAK	2SK2782	A	IR
IRFR024A	60	0.07	15	30	D-PAK	2SK2782	A	Samsung
IRFR024N	55	0.075	16	38	D-PAK	2SK2782	A	IR
IRFR034A	60	0.04	23	40	D-PAK			Samsung
IRFR110	100	0.54	4.3	25	D-PAK	2SK2201	A	IR
IRFR110A	100	0.4	4.7	20	D-PAK	2SK2201	A	Samsung
IRFR120	100	0.27	7.7	42	D-PAK	2SK2399	A	IR
IRFR1205	55	0.027	37	69	D-PAK			IR
IRFR120A	100	0.2	8.4	32	D-PAK	2SK2399	A	Samsung
IRFR120N	100	0.21	9.1	39	D-PAK	2SK2399	A	IR
IRFR121	80	0.27	8.4		TO-252	2SK2399	A	Harris
IRFR130A	100	0.11	13	41	D-PAK			Samsung
IRFR210	200	1.5	2.6	25	D-PAK	2SK2920	A	IR
IRFR210A	200	1.5	2.7	26	D-PAK	2SK2920	A	Samsung
IRFR214	250	2	2.2	25	D-PAK			IR
IRFR214A	250	2	2.2	25	D-PAK			Samsung
IRFR220	200	0.8	4.8	42	D-PAK	2SK2920	A	IR
IRFR220A	200	0.8	4.6	40	D-PAK	2SK2920	A	Samsung
IRFR221	150	0.8	4.6		TO-252	2SK2920	A	Harris
IRFR222	200	1.2	3.8		TO-252	2SK2920	A	Harris

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFR224	250	1.1	3.8	42	D-PAK			IR
IRFR224A	250	1.1	3.8	42	D-PAK			Samsung
IRFR230A	200	0.4	7.5	50	D-PAK			Samsung
IRFR234A	250	0.45	6.6	49	D-PAK			Samsung
IRFR310	400	3.6	1.7	25	D-PAK	2SK2599	B	IR
IRFR310A	400	3.6	1.7	26	D-PAK	2SK2599	B	Samsung
IRFR320	400	1.8	3.1	42	D-PAK			IR
IRFR320A	400	1.8	3.1	41	D-PAK			Samsung
IRFR321	350	1.8	3.1		TO-252	2SK2679	B	Harris
IRFR322	400	2.5	2.6		TO-252	2SK2599	B	Harris
IRFR3303	30	0.031	33	57	D-PAK			IR
IRFR330A	400	1	4.5	48	D-PAK			Samsung
IRFR3910	100	0.11	15	52	D-PAK			IR
IRFR410	500	7	1.5		D-PAK	2SK2865	A	Harris
IRFR4105	55	0.045	25	48	D-PAK	2SK2782	A	IR
IRFR420	500	3	2.4	42	D-PAK	2SK2599	B	IR
IRFR420A	500	3	2.3	41	D-PAK	2SK2599	B	Samsung
IRFR421	450	3	2.5		TO-252	2SK2599	B	Harris
IRFR422	500	4	2.2		TO-252	2SK2599	B	Harris
IRFR430A	500	1.5	3.5	48	D-PAK			Samsung
IRFR5305	-55	0.065	-28	89	D-PAK			IR
IRFR5505	-55	0.11	-18	57	D-PAK			IR
IRFR9014	-60	0.5	5.1	25	D-PAK	2SJ377	A	IR
IRFR9024	-60	0.28	8.8	42	D-PAK	2SJ377	A	IR
IRFR9110	-100	1.2	3.1	25	D-PAK			IR
IRFR9120	-100	0.6	5.6	42	D-PAK			IR
IRFR9120N	-100	0.48	-6.5	39	D-PAK			IR
IRFR9210	-200	3	1.9	25	D-PAK			IR
IRFR9214	-250	3	-2.7	50	D-PAK	2SJ512	B	IR
IRFR9220	-200	1.5	3.6	42	D-PAK			IR
IRFR9310	-400	7	-1.8	50	D-PAK			IR
IRFRC20	600	4.4	2	42	D-PAK	2SK2865	A	IR
IRFS140A	100	0.052	23	72	TO-3PIS	2SK2466	B	Samsung
IRFS150A	100	0.04	31	100	TO-3PIS	2SK2466	B	Samsung
IRFS1Z0	100	2.4	0.82	3.6	SOT-89	2SK2963	A	IR
IRFS240A	200	0.18	12.8	73	TO-3PIS	2SK2382	B	Samsung
IRFS244A	250	0.28	10.2	73	TO-3PIS	2SK2508	B	Samsung
IRFS250A	200	0.085	21.3	90	TO-3PIS	2SK2995	A	Samsung
IRFS254A	250	0.14	16	90	TO-3PIS	2SK2995	A	Samsung
IRFS340A	400	0.55	8	85	TO-3PIS	2SK2952	B	Samsung
IRFS350A	400	0.3	11.5	92	TO-3PIS	2SK2917	A	Samsung
IRFS440A	500	0.85	6.2	85	TO-3PIS	2SK2600	A	Samsung
IRFS450A	500	0.4	9.6	96	TO-3PIS	2SK2916	A	Samsung
IRFS510A	100	0.4	4.5	21	TO-220IS	2SK2399	B	Samsung
IRFS520A	100	0.2	7.2	28	TO-220IS	2SK2399	B	Samsung
IRFS530A	100	0.11	10.7	32	TO-220IS	2SK2391	A	Samsung
IRFS540A	100	0.052	17	39	TO-220IS	2SK2466	A	Samsung
IRFS550A	100	0.04	21	46	TO-220IS	2SK2466	A	Samsung
IRFS610A	200	1.5	2.5	22	TO-220IS	2SK2381	A	Samsung
IRFS614A	250	2	2.1	22	TO-220IS	2SK2840	A	Samsung

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**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFS620A	200	0.8	4.1	32	TO-220IS	2SK2381	A	Samsung
IRFS624A	250	1.1	3.4	34	TO-220IS	2SK2840	A	Samsung
IRFS630A	200	0.4	6.5	38	TO-220IS	2SK2350	A	Samsung
IRFS634A	250	0.45	5.8	38	TO-220IS	2SK2417	A	Samsung
IRFS640A	200	0.18	9.8	43	TO-220IS	YTAF630	A	Samsung
IRFS644A	250	0.28	7.9	43	TO-220IS	2SK2508	A	Samsung
IRFS650A	200	0.085	15.8	50	TO-220IS			Samsung
IRFS654A	250	0.14	12	50	TO-220IS			Samsung
IRFS710A	400	3.6	1.6	23	TO-220IS	2SK2862	B	Samsung
IRFS720A	400	1.8	2.8	33	TO-220IS	2SK2679	A	Samsung
IRFS730A	400	1	3.9	38	TO-220IS	2SK2679	A	Samsung
IRFS740A	400	0.55	5.7	44	TO-220IS	2SK2952	A	Samsung
IRFS750A	400	0.3	8.4	49	TO-220IS			Samsung
IRFS820A	500	3	2.1	33	TO-220IS	2SK2862	A	Samsung
IRFS830A	500	1.5	3.1	38	TO-220IS	2SK2662	A	Samsung
IRFS840A	500	0.85	4.6	44	TO-220IS	2SK2662	A	Samsung
IRFSZ14A	60	0.14	8	19	TO-220IS	2SK2231	B	Samsung
IRFSZ24A	60	0.07	14	30	TO-220IS	2SK2232	A	Samsung
IRFSZ34A	60	0.04	20	34	TO-220IS	2SK2385	A	Samsung
IRFSZ44A	60	0.024	30	45	TO-220IS	2SK2312	A	Samsung
IRFU014	60	0.2	7.7	25	I-PAK	2SK2231	A	IR
IRFU014A	60	0.14	8.2	18	I-PAK	2SK2231	A	Samsung
IRFU024	60	0.1	14	42	I-PAK	2SK2782	A	IR
IRFU024A	60	0.07	15	30	I-PAK	2SK2782	A	Samsung
IRFU024N	55	0.075	16	38	I-PAK	2SK2782	A	IR
IRFU034A	60	0.04	23	40	I-PAK			Samsung
IRFU110	100	0.54	4.3	25	I-PAK	2SK2201	A	IR
IRFU110A	100	0.4	4.7	20	I-PAK	2SK2201	A	Samsung
IRFU120	100	0.27	7.7	42	I-PAK	2SK2399	A	IR
IRFU1205	55	0.027	37	69	I-PAK			IR
IRFU120A	100	0.2	8.4	32	I-PAK	2SK2399	A	Samsung
IRFU120N	100	0.21	9.1	39	I-PAK	2SK2399	A	IR
IRFU121	80	0.27	8.4		TO-251	2SK2399	A	Harris
IRFU130A	100	0.11	13	41	I-PAK			Samsung
IRFU210	200	1.5	2.6	25	I-PAK	2SK2920	A	IR
IRFU210A	200	1.5	2.7	26	I-PAK	2SK2920	A	Samsung
IRFU214	250	2	2.2	25	I-PAK			IR
IRFU214A	250	2	2.2	25	I-PAK			Samsung
IRFU220	200	0.8	4.8	42	I-PAK	2SK2920	B	IR
IRFU220A	200	0.8	4.6	40	I-PAK	2SK2920	A	Samsung
IRFU221	150	0.8	4.6		TO-251	2SK2920	A	Harris
IRFU222	200	1.2	3.8		TO-251	2SK2920	A	Harris
IRFU224	250	1.1	3.8	42	I-PAK			IR
IRFU224A	250	1.1	3.8	42	I-PAK			Samsung
IRFU230A	200	0.4	7.5	50	I-PAK			Samsung
IRFU234A	250	0.45	6.6	49	I-PAK			Samsung
IRFU310	400	3.6	1.7	25	I-PAK	2SK2599	B	IR
IRFU310A	400	3.6	1.7	26	I-PAK	2SK2599	B	Samsung
IRFU320	400	1.8	3.1	42	I-PAK	2SK2679	B	IR
IRFU320A	400	1.8	3.1	41	I-PAK			Samsung

**Power MOSFETs Cross Reference**

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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFU321	350	1.8	3.1		TO-251	2SK2679	B	Harris
IRFU322	400	2.5	2.6		TO-251	2SK2599	B	Harris
IRFU3303	30	0.031	33	57	I-PAK			IR
IRFU330A	400	1	4.5	48	I-PAK			Samsung
IRFU3910	100	0.11	15	52	I-PAK			IR
IRFU4105	55	0.045	25	48	I-PAK	2SK2782	A	IR
IRFU420	500	3	2.4	42	I-PAK	2SK2599	B	IR
IRFU420A	500	3	2.3	41	I-PAK	2SK2599	B	Samsung
IRFU421	450	3	2.5		TO-251	2SK2599	B	Harris
IRFU422	500	4	2.2		TO-251	2SK2599	B	Harris
IRFU430A	500	1.5	3.5	48	I-PAK			Samsung
IRFU5305	-55	0.065	-28	89	I-PAK			IR
IRFU5505	-55	0.11	-18	57	I-PAK			IR
IRFU9014	-60	0.5	-5.1	25	I-PAK	2SJ377	A	IR
IRFU9014	-60	0.5	5.1	25	I-PAK	2SJ377	A	IR
IRFU9024	-60	0.28	8.8	42	I-PAK	2SJ377	A	IR
IRFU9110	-100	1.2	3.1	25	I-PAK			IR
IRFU9120	-100	0.6	5.6	42	I-PAK			IR
IRFU9120N	-100	0.48	-6.5	39	I-PAK			IR
IRFU9210	-200	3	1.9	25	I-PAK			IR
IRFU9214	-250	3	-2.7	50	I-PAK	2SJ512	B	IR
IRFU9220	-200	1.5	3.6	42	I-PAK			IR
IRFU9310	-400	7	-1.8	50	I-PAK			IR
IRFUC20	600	4.4	2	42	I-PAK	2SK2865	A	IR
IRFW450	500	0.4	14	180	TO-247	2SK2698	A	ST
IRFW510A	100	0.4	5.6	33	D2-PAK	2SK2399	B	Samsung
IRFW520A	100	0.2	9.2	45	D2-PAK	2SK2399	B	Samsung
IRFW530A	100	0.11	14	55	D2-PAK	2SK2789	A	Samsung
IRFW540A	100	0.052	28	107	D2-PAK	2SK2466	B	Samsung
IRFW550A	100	0.04	40	167	D2-PAK	2SK2466	B	Samsung
IRFW610A	200	1.5	3.3	38	D2-PAK	2SK2920	B	Samsung
IRFW614A	250	2	2.8	40	D2-PAK			Samsung
IRFW620A	200	0.8	5	47	D2-PAK	2SK2920	B	Samsung
IRFW624A	250	1.1	4.1	49	D2-PAK			Samsung
IRFW630A	200	0.4	9	72	D2-PAK	2SK2401	A	Samsung
IRFW634A	250	0.45	8.1	74	D2-PAK	2SK2598	A	Samsung
IRFW640A	200	0.18	18	139	D2-PAK	2SK2401	A	Samsung
IRFW644A	250	0.28	14	139	D2-PAK	2SK2598	A	Samsung
IRFW710A	400	3.6	2	36	D2-PAK	2SK2838	A	Samsung
IRFW720A	400	1.8	3.3	46	D2-PAK	2SK2838	A	Samsung
IRFW730A	400	1	5.5	73	D2-PAK	2SK2838	A	Samsung
IRFW740A	400	0.55	10	134	D2-PAK	2SK2949	A	Samsung
IRFW820A	500	3	2.5	49	D2-PAK			Samsung
IRFW830A	500	1.5	4.5	73	D2-PAK	2SK2991	A	Samsung
IRFW840A	500	0.85	8	134	D2-PAK	2SK2776	A	Samsung
IRFWZ14A	60	0.14	10	30	D2-PAK	2SK2231	B	Samsung
IRFWZ24A	60	0.07	17	44	D2-PAK	2SK2311	A	Samsung
IRFWZ34A	60	0.04	30	77	D2-PAK	2SK2311	A	Samsung
IRFWZ44A	60	0.024	50	126	D2-PAK	2SK2376	A	Samsung
IRFZ14	60	0.2	10	43	TO-220AB	2SK2231	B	IR

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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
IRFZ14A	60	0.14	10	30	TO-220AB	2SK2231	B	Samsung
IRFZ14S	60	0.2	10	43	D2PAK	2SK2231	B	IR
IRFZ24	60	0.1	17	60	TO-220AB	2SK2232	B	IR
IRFZ24A	60	0.07	17	44	TO-220AB	2SK2232	B	Samsung
IRFZ24N	55	0.07	17	45	TO220AB	2SK2232	B	IR
IRFZ24NL	55	0.07	17	45	TO-262	2SK2311	A	IR
IRFZ24NS	55	0.07	17	45	D2PAK	2SK2311	A	IR
IRFZ24S	60	0.1	17	60	D2PAK	2SK2782	B	IR
IRFZ34	60	0.05	30	88	TO-220AB	2SK2232	B	IR
IRFZ34A	60	0.04	30	77	TO-220AB	2SK2385	B	Samsung
IRFZ34E	60	0.042	28	68	TO-220AB	2SK2232	B	IR
IRFZ34N	55	0.04	26	56	TO-220AB	2SK2232	B	IR
IRFZ34NL	55	0.04	29	68	TO-262	2SK2311	A	IR
IRFZ34NS	55	0.04	29	68	D2PAK	2SK2311	A	IR
IRFZ34S	60	0.05	30	88	D2PAK	2SK2266	A	IR
IRFZ40	50	0.028	50	150	TO-220AB	2SK2886	B	ST
IRFZ40FI	50	0.028	27	45	TO-220IS	2SK2886	A	ST
IRFZ44	60	0.028	50	150	TO-220AB	2SK2385	B	IR
IRFZ44A	60	0.024	50	126	TO-220AB	2SK2312	B	Samsung
IRFZ44E	60	0.023	48	110	TO-220AB	2SK2312	B	IR
IRFZ44ES	60	0.023	48	110	D2PAK	2SK2376	A	IR
IRFZ44N	55	0.024	41	83	TO-220AB	2SK2385	B	IR
IRFZ44NL	55	0.022	49	110	TO-262	2SK2376	A	IR
IRFZ44NS	55	0.022	49	110	D2PAK	2SK2376	A	IR
IRFZ44S	60	0.028	50	150	D2PAK	2SK2266	A	IR
IRFZ46	50	0.024	50	150	TO-220AB	2SK2886	B	IR
IRFZ46N	55	0.02	46	88	TO-220AB	2SK2312	B	IR
IRFZ46NL	55	0.02	53	120	TO-262	2SK2376	A	IR
IRFZ46NS	55	0.02	53	120	D2PAK	2SK2376	A	IR
IRFZ46S	50	0.024	50	150	D2PAK	2SK3051	A	IR
IRFZ48	60	0.018	50	190	TO-220AB	2SK2312	B	IR
IRFZ48N	55	0.016	53	94	TO-220AB	2SK2312	B	IR
IRFZ48NL	55	0.016	64	140	TO-262	2SK2376	A	IR
IRFZ48NS	55	0.016	64	140	D2PAK	2SK2376	A	IR
IRFZ48S	60	0.018	50	190	D2PAK	2SK2376	A	IR
IRL2203	30	0.01	92	150	TO-220AB	2SK3127	B	IR
IRL2203N	30	0.007	100	130	TO-220AB			IR
IRL2203NL	30	0.007	116	170	TO-262			IR
IRL2203NS	30	0.007	116	170	D2PAK			IR
IRL2203S	30	0.01	92	150	D2PAK	2SK3127	A	IR
IRL2505	55	0.008	104	200	TO-220AB	2SK2985	B	IR
IRL2505L	55	0.008	104	200	TO-262	2SK2986	A	IR
IRL2505S	55	0.008	104	200	D2PAK	2SK2986	A	IR
IRL2703	30	0.04	24	45	TO-220AB	2SK2844	A	IR
IRL2703S	30	0.04	24	45	D2PAK	2SK3089	A	IR
IRL2910	100	0.026	48	150	TO-220AB			IR
IRL2910S	100	0.026	48	150	D2PAK			IR
IRL3102	20	0.013	61	89	TO-220AB			IR
IRL3102S	20	0.013	61	89	D2PAK			IR
IRL3103	30	0.014	56	83	TO-220AB			IR



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IRL3103L	30	0.014	64	110	TO-262			IR
IRL3103S	30	0.014	64	110	D2PAK			IR
IRL3202	20	0.016	48	69	TO-220AB			IR
IRL3202S	20	0.016	48	69	D2PAK			IR
IRL3302	20	0.02	39	57	TO-220AB			IR
IRL3302S	20	0.02	39	57	D2PAK			IR
IRL3303	30	0.026	34	56	TO-220AB	2SK2844	A	IR
IRL3303L	30	0.026	38	68	TO-262	2SK3089	A	IR
IRL3303S	30	0.026	38	68	D2PAK	2SK3089	A	IR
IRL3402	20	0.01	85	110	TO-220AB			IR
IRL3402S	20	0.01	85	110	D2PAK			IR
IRL3502	20	0.007	110	140	TO-220AB			IR
IRL3502S	20	0.007	110	140	D2PAK			IR
IRL3705	50	0.012	80	150	TO-220AB			IR
IRL3705N	55	0.01	77	130	TO-220AB			IR
IRL3705NL	55	0.01	89	170	TO-262			IR
IRL3705NS	55	0.01	89	170	D2PAK			IR
IRL3705S	50	0.012	80	150	D2PAK			IR
IRL3803	30	0.006	120	150	TO-220AB			IR
IRL3803L	30	0.006	140	200	TO-262			IR
IRL3803S	30	0.006	140	200	D2PAK			IR
IRL510	100	0.54	5.6	43	TO-220AB			IR
IRL510S	100	0.54	5.6	43	D2PAK			IR
IRL520	100	0.27	9.2	60	TO-220AB	2SK2399	B	IR
IRL520N	100	0.18	10	47	TO-220AB	2SK2314	A	IR
IRL520S	100	0.27	9.2	60	D2PAK	2SK2399	B	IR
IRL530	100	0.16	15	88	TO-220AB	2SK2314	A	IR
IRL530N	100	0.1	15	63	TO-220AB	2SK2314	A	IR
IRL530NS	100	0.1	15	63	D2PAK	2SK2789	A	IR
IRL530S	100	0.16	15	88	D2PAK	2SK2789	A	IR
IRL540	100	0.077	28	150	TO-220AB	2SK2314	A	IR
IRL540N	100	0.044	30	94	TO-220AB	2SK2466	A	IR
IRL540S	100	0.077	28	150	D2PAK	2SK2789	A	IR
IRL620	200	0.8	5.2	50	TO-220AB	2SK2381	B	IR
IRL620S	200	0.8	5.2	50	D2PAK	2SK2920	B	IR
IRL630	200	0.4	9	74	TO-220AB	YTA630	A	IR
IRL630S	200	0.4	9	74	D2PAK	2SK2401	A	IR
IRL640S	200	0.18	18	125	D2PAK	2SK2401	A	IR
IRLD014	60	0.2	1.7	1.3	DIP			IR
IRLD024	60	0.1	2.5	1.3	DIP			IR
IRLD110	100	0.54	1	1.3	DIP			IR
IRLD120	100	0.27	1.3	1.3	DIP			IR
IRLI2203G	30	0.01	49	48	TO-220IS			IR
IRLI2203N	30	0.007	61	47	TO-220IS			IR
IRLI2505	55	0.008	58	63	TO-220IS	2SK2985	A	IR
IRLI2910	100	0.026	27	48	TO-220IS			IR
IRLI3705G	50	0.012	45	48	TO-220IS			IR
IRLI3705N	55	0.01	47	47	TO-220IS			IR
IRLI3803	30	0.006	67	48	TO-220IS			IR
IRLI520G	100	0.27	7.2	37	TO-220IS	2SK2399	B	IR

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IRLI520N	100	0.18	7.7	27	TO-220IS	2SK2391	A	IR
IRLI530G	100	0.16	9.7	42	TO-220IS	2SK2391	A	IR
IRLI530N	100	0.1	11	33	TO-220IS	2SK2391	A	IR
IRLI540G	100	0.077	12	48	TO-220IS	2SK2391	A	IR
IRLI540N	100	0.044	20	42	TO-220IS	2SK2466	B	IR
IRLI620G	200	0.8	4.1	30	TO-220IS	2SK2381	A	IR
IRLI630G	200	0.4	5.9	32	TO-220IS	2SK2350	A	IR
IRLI640G	200	0.18	9.8	40	TO-220IS	YTAF640	A	IR
IRLIZ14G	60	0.2	8	27	TO-220IS	2SK2231	B	IR
IRLIZ24G	60	0.1	14	37	TO-220IS	2SK2232	A	IR
IRLIZ24N	55	0.06	14	26	TO-220IS	2SK2232	A	IR
IRLIZ34G	60	0.05	20	42	TO-220IS	2SK2232	A	IR
IRLIZ34N	55	0.035	20	31	TO-220IS	2SK2385	A	IR
IRLIZ44G	60	0.028	30	48	TO-220IS	2SK2385	A	IR
IRLIZ44N	55	0.022	28	38	TO-220IS	2SK2312	A	IR
IRLL014	60	0.2	2.7	3.1	SOT-223	2SK2741	A	IR
IRLL014N	55	0.14	2	2.1	SOT-223	2SK2741	A	IR
IRLL110	100	0.54	1.5	3.1	SOT-223	2SK2742	A	IR
IRLL2705	55	0.04	5.2	2.1	SOT-223			IR
IRLL3303	30	0.031	6.5	2.1	SOT-223	2SK2839	A	IR
IRLML2402	20	0.25	0.93	0.34	Micro-3			IR
IRLML2803	30	0.25	0.91	0.34	Micro-3			IR
IRLML5103	-30	0.6	0.6	0.28	Micro-3			IR
IRLML6302	-20	0.6	0.61	0.28	Micro-3	SSM3J01F		IR
IRLMS1503	30	0.1	3.2	1.7	MICRO6			IR
IRLMS1902	20	0.1	3.2	1.7	MICRO6			IR
IRLMS5703	-30	0.2	-2.3	1.7	MICRO6			IR
IRLMS6702	-20	0.2	-2.3	1.7	MICRO6			IR
IRLR014	60	0.2	7.7	25	D-PAK	2SK2231	A	IR
IRLR024	60	0.1	14	42	D-PAK	2SK2232	A	IR
IRLR024N	55	0.065	17	38	D-PAK	2SK2782	A	IR
IRLR110	100	0.54	4.3	25	D-PAK	2SK2201	A	IR
IRLR120	100	0.27	7.7	42	D-PAK	2SK2399	A	IR
IRLR120N	100	0.185	11	39	D-PAK	2SK2399	A	IR
IRLR2703	30	0.045	22	38	D-PAK			IR
IRLR2705	55	0.04	24	46	D-PAK			IR
IRLR2905	55	0.027	36	69	D-PAK			IR
IRLR3103	30	0.019	46	69	D-PAK			IR
IRLR3303	30	0.031	33	57	D-PAK			IR
IRLR3410	100	0.1	15	52	D-PAK			IR
IRLU014	60	0.2	7.7	25	I-PAK	2SK2231	A	IR
IRLU024	60	0.1	14	42	I-PAK	2SK2782	A	IR
IRLU024N	55	0.065	17	38	I-PAK	2SK2782	A	IR
IRLU110	100	0.54	4.3	25	I-PAK	2SK2201	A	IR
IRLU120	100	0.27	7.7	42	I-PAK	2SK2399	A	IR
IRLU120N	100	0.185	11	39	I-PAK	2SK2399	A	IR
IRLU2703	30	0.045	22	38	I-PAK			IR
IRLU2705	55	0.04	24	46	I-PAK			IR
IRLU2905	55	0.027	36	69	I-PAK			IR
IRLU3103	30	0.019	46	69	I-PAK			IR

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IRLU3303	30	0.031	33	57	I-PAK			IR
IRLU3410	100	0.1	15	52	I-PAK			IR
IRLZ14	60	0.2	10	43	TO-220AB	2SK2231	B	IR
IRLZ14S	60	0.2	10	43	D2PAK	2SK2231	B	IR
IRLZ24	60	0.1	17	60	TO-220AB	2SK2232	B	IR
IRLZ24N	55	0.06	18	45	TO-220AB	2SK2232	B	IR
IRLZ24NL	55	0.06	18	45	TO-262	2SK2311	A	IR
IRLZ24NS	55	0.06	18	45	D2PAK	2SK2311	A	IR
IRLZ24S	60	0.1	17	60	D2PAK	2SK2782	B	IR
IRLZ34	60	0.05	30	88	TO-220AB	2SK2232	B	IR
IRLZ34N	55	0.035	27	56	TO-220AB	2SK2385	B	IR
IRLZ34NL	55	0.035	30	68	TO-262	2SK2266	A	IR
IRLZ34NS	55	0.035	30	68	D2PAK	2SK2266	A	IR
IRLZ34S	60	0.05	30	88	D2PAK	2SK2311	A	IR
IRLZ44	60	0.028	50	150	TO-220AB	2SK2385	B	IR
IRLZ44N	55	0.022	41	83	TO-220AB	2SK2312	B	IR
IRLZ44NL	55	0.022	47	110	TO-262	2SK2376	A	IR
IRLZ44NS	55	0.022	47	110	D2PAK	2SK2376	A	IR
IRLZ44S	60	0.028	50	150	D2PAK	2SK2266	A	IR
MLP1N06CL	60	0.75	1		TO-220AB			Motorola
MLP2N06CL	62	0.4	2		TO-220AB			Motorola
MMBF170	60	5	0.5	0.3	SOT-23			Fairchild
MMDF1300R2	25/-25	0.1/0.21	2/2		SOP-8(P&N)			Motorola
MMDF1N05E	50	0.18	1		SOP-8(Dual)	TPC8205	A	Motorola
MMDF2C01HD	20/-12	0.045/0.18	5.2/3.4		SOP-8(P&N)			Motorola
MMDF2C02E	25/-25	0.1/0.25	3.6/2.5		SOP-8(P&N)			Motorola
MMDF2C02HD	20/-20	0.09/0.16	3.8/-3.3		SOP-8(P&N)			Motorola
MMDF2C03HD	30/-30	0.07/0.2	4.1/-3		SOP-8(P&N)	TPC8401	A	Motorola
MMDF2N02E	25	0.1	3.6		SOP-8(Dual)			Motorola
MMDF2N05Z	50	0.3	2	1.6	SOP-8(Dual)	TPC8205	A	Motorola
MMDF2P01HD	-12	0.18	-3.4		SOP-8(Dual)			Motorola
MMDF2P02E	-25	0.25	-2.5		SOP-8(Dual)	TPC8303	A	Motorola
MMDF2P02HD	-20	0.16	-3.3		SOP-8(Dual)	TPC8302	A	Motorola
MMDF2P03HD	-30	0.2	-3		SOP-8(Dual)	TPC8301	A	Motorola
MMDF3200*	20	0.02			SOP-8(Dual)	TPC8204	A	Motorola
MMDF3200D	20	0.015	7.1		SOP-8(Dual)	TPC8204	A	Motorola
MMDF3200Z	20	0.015	7.1		SOP-8(Dual)	TPC8204	A	Motorola
MMDF3201*	20	0.015	7.1		SOP-8(Dual)	TPC8204	A	Motorola
MMDF3207*	-20	0.03			SOP-8(Dual)			Motorola
MMDF3301*	-30	0.04			SOP-8(Dual)	TPC8303	A	Motorola
MMDF3303*	30/-30	0.025/0.04			SOP-8(P&N)	TPC8401	A	Motorola
MMDF3304*	30	0.025			SOP-8(Dual)	TPCT8203	A	Motorola
MMDF3N02HD	20	0.09	3.8		SOP-8(Dual)	TPC8202	A	Motorola
MMDF3N03HD	30	0.07	4.1		SOP-8(Dual)	TPC8201	A	Motorola
MMDF3N04HD	40	0.08	3.4	2	SOP-8(Dual)			Motorola
MMDF3N06HD	60	0.1	3.3		SOP-8(Dual)			Motorola
MMDF4N01HD	12	0.1	4		SOP-8(Dual)			Motorola
MMDF4N02Z	20	0.04	4.5		SOP-8(Dual)	TPC8202	A	Motorola
MMDF5N02Z	20	0.04	5		SOP-8(Dual)	TPC8202	A	Motorola
MMDF6N02HD	20	0.035	6		SOP-8(Dual)	TPC8204	A	Motorola

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
MMFT1N10E	100	0.3	1		SOT-223	2SK2742	A	Motorola
MMFT2955E	-60	0.3	1.2		SOT-223	2SJ482	A	Motorola
MMFT2N02EL	20	0.15	2	0.8	SOT-223	2SK2839	A	Motorola
MMFT3055E	60	0.15	1.7		SOT-223	2SK2741	A	Motorola
MMFT3055EL	60	0.18	1.5		SOT-223	2SK2741	A	Motorola
MMFT3055V	60	0.13	1.7	0.8	SOT-223	2SK2741	A	Motorola
MMFT3055VL	60	0.14	1.5	0.8	SOT-223	2SK2741	A	Motorola
MMSF10N02Z	20	0.015	10.		SOP-8(Single)	TPC8008	A	Motorola
MMSF2P02E	-20	0.25	-2.5		SOP-8(Single)			Motorola
MMSF3203*	-20	0.02			SOP-8(Single)			Motorola
MMSF3205	-20	0.015	-8.6		SOP-8(Single)			Motorola
MMSF3207	-20	0.033	-4.8		SOP-8(Dual)			Motorola
MMSF3300	30	0.0125			SOP-8(Single)	TPC8007-H	A	Motorola
MMSF3305*	-30	0.02			SOP-8(Single)	TPC8106-H	A	Motorola
MMSF3P02HD	-20	0.075	-5.6		SOP-8(Single)			Motorola
MMSF3P03HD	-30	0.1	-4.6		SOP-8(Single)	TPC8104-H	A	Motorola
MMSF4N01HD	12	0.045	4	1.5	SOP-8(Single)			Motorola
MMSF4P01HD	-12	0.08	-5.1		SOP-8(Single)			Motorola
MMSF5N02HD	20	0.025	8.2		SOP-8(Single)	TPC8008	A	Motorola
MMSF5N03HD	30	0.04	6.5		SOP-8(Single)	TPC8006-H	A	Motorola
MMSF5N03Z	30	0.035	5	1.6	SOP-8(Single)	TPC8001	A	Motorola
MMSF6N01HD	12	0.045	6		SOP-8(Single)			Motorola
MMSF6N02Z	20	0.022	6	1.6	SOP-8(Single)	TPC8001	A	Motorola
MMSF7N02Z	20	0.022	7		SOP-8(Single)	TPC8008	A	Motorola
MMSF7N03HD	30	0.028	8.2	2.5	SOP-8(Single)	TPC8006-H	A	Motorola
MMSF7N03Z	30	0.03	7.5		SOP-8(Single)	TPC8006-H	A	Motorola
MPM3002	100	0.4/0.15	8		ICePAK(H-B)			Motorola
MPM3003	60	0.28/0.15	10		ICePAK(FULL)			Motorola
MPM3004	60	0.28/0.15	10		ICePAK(H-B)			Motorola
MPM3008	60	0.15/0.04	16		ICePAK(H-B)			Motorola
MPM3010	60	0.15/0.15	12		ICePAK(H-B)			Motorola
MPM3017	60	0.15/0.04	25		ICePAK(H-B)			Motorola
MTA1N60E	600	3.8	1		TO-220IS	2SK3067	A	Motorola
MTA2955E	-60	0.3	8		TO-220IS	2SJ438	A	Motorola
MTA2N60E	600	2.2	2		TO-220IS	2SK2750	A	Motorola
MTA3055E	60	0.15	9		TO-220IS	2SK2231	B	Motorola
MTA30N06E	60	0.025	30		TO-220IS	2SK2312	A	Motorola
MTA4N40E	400	1	4		TO-220IS	2SK2679	A	Motorola
MTA4N50E	500	1.5	4		TO-220IS	2SK2662	A	Motorola
MTA4N60E	600	1.2	4		TO-220IS	2SK2545	A	Motorola
MTA5N50E	500	0.8	5		TO-220IS	2SK2662	A	Motorola
MTA6N40E	400	0.55	6		TO-220IS	2SK2952	A	Motorola
MTA8N10E	100	0.25	8		TO-220IS	2SK2399	B	Motorola
MTAJ10P10	-100	0.3	10	40	TO-220IS	2SJ438	A	Motorola
MTAJ15P06	-60	0.12	15	45	TO-220IS	2SJ304	A	Motorola
MTAJ23N06HDL	60	0.03	23	40	TO-220IS	2SK2385	A	Motorola
MTAJ25N06EL	60	0.05	25	40	TO-220IS	2SK2232	A	Motorola
MTAJ27N06E	60	0.04	27	40	TO-220IS	2SK2385	A	Motorola
MTAJ3055E	60	0.15	10	30	TO-220IS	2SK2231	B	Motorola
MTAJ3055EL	60	0.18	12	30	TO-220IS	2SK2231	B	Motorola

**Power MOSFETs Cross Reference**
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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
MTAJ30N06E	60	0.028	30	50	TO-220IS	2SK2385	A	Motorola
MTAJ30N06EL	60	0.028	30	50	TO-220IS	2SK2385	A	Motorola
MTAJ30N06HD	60	0.021	30	35	TO-220IS	2SK2312	A	Motorola
MTAJ8N10E	100	0.25	8	35	TO-220IS	2SK2399	B	Motorola
MTB10N40E	400	0.55	10		D2-PAK	2SK2949	A	Motorola
MTB15N06E	60	0.12	15		D2-PAK	2SK2782	B	Motorola
MTB15N06V	60	0.12	15		D2-PAK	2SK2782	B	Motorola
MTB16N25E	250	0.25	16		D2-PAK	2SK2598	A	Motorola
MTB1N100E	1000	9	1		D2-PAK	2SK1930	A	Motorola
MTB20N20E	200	0.16	20		D2-PAK	2SK2401	A	Motorola
MTB23P06E	-60	0.12	23		D2-PAK	2SJ401	A	Motorola
MTB23P06V	-60	0.12	23		D2-PAK	2SJ401	A	Motorola
MTB2N40E	400	3.5	2		D2-PAK	2SK2838	A	Motorola
MTB2N60E	600	4.16	2		D2-PAK	2SK2865	B	Motorola
MTB2P50E	-500	6	2		D2-PAK			Motorola
MTB30N06EL	60	0.05	30		D2-PAK	2SK2311	A	Motorola
MTB30N06VL	60	0.05	30		D2-PAK	2SK2311	A	Motorola
MTB30P06V	-60	0.08	30		D2-PAK	2SJ401	A	Motorola
MTB33N10E	100	0.06	33		D2-PAK	2SK2466	B	Motorola
MTB35N06ZL	60	0.026	35		D2-PAK	2SK2266	A	Motorola
MTB36N06E	60	0.04	36		D2-PAK	2SK2311	A	Motorola
MTB36N06V	60	0.04	32		D2-PAK	2SK2311	A	Motorola
MTB3N100E	1000	4	3		D2-PAK	2SK1930	A	Motorola
MTB3N120E	1200	5	3		D2-PAK			Motorola
MTB4N80E	800	3	4		D2-PAK	2SK2883	A	Motorola
MTB50N06E	60	0.025	50		D2-PAK	2SK2376	A	Motorola
MTB50N06EL	60	0.028	50		D2-PAK	2SK2266	A	Motorola
MTB50N06V	60	0.028	42		D2-PAK	2SK2266	A	Motorola
MTB50N06VL	60	0.032	42		D2-PAK	2SK2266	A	Motorola
MTB50P03HDL	-30	0.03	50		D2-PAK			Motorola
MTB52N06VL	60	0.024	52		D2-PAK	2SK2376	A	Motorola
MTB55N06Z	60	0.018	55		D2-PAK	2SK2376	A	Motorola
MTB56N06V	60	0.022	52		D2-PAK	2SK2376	A	Motorola
MTB60N06HD	60	0.014	60		D2-PAK	2SK2376	A	Motorola
MTB6N60E	600	1.2	6		D2-PAK	2SK2777	A	Motorola
MTB75N03HDL	30	0.007	75		D2-PAK			Motorola
MTB75N05HD	50	0.0095	75		D2-PAK	2SK2986	A	Motorola
MTB75N06HD	60	0.01	75		D2-PAK	2SK2986	A	Motorola
MTB8N50E	500	0.8	8		D2-PAK	2SK2776	A	Motorola
MTB9N25E	250	0.5	9		D2-PAK			Motorola
MTD10N05E	50	0.1	10		D-PAK	2SK2614	A	Motorola
MTD10N10EL	100	0.22	10		D-PAK	2SK2399	A	Motorola
MTD12N06EZL	60	0.18	12		D-PAK	2SK2231	A	Motorola
MTD14N10E	100		14		D-PAK			Motorola
MTD15N06V	60	0.12	15		D-PAK	2SK2782	A	Motorola
MTD15N06VL	60	0.085	15		D-PAK	2SK2782	A	Motorola
MTD1N50E	500	5	1		D-PAK	2SK2865	A	Motorola
MTD1N60E	600	8	1		D-PAK	2SK2865	A	Motorola
MTD1N80E	800	12	1		D-PAK	2SK2997	A	Motorola
MTD1P50E	-500	15	1		D-PAK			Motorola

**Power MOSFETs Cross Reference**
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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
MTD20N03HDL	30	0.035	20		D-PAK	2SK2614	A	Motorola
MTD20N06HD	60	0.045	20		D-PAK			Motorola
MTD20N06HDL	60	0.045	20		D-PAK			Motorola
MTD20N06V	60	0.08	20		D-PAK	2SK2782	A	Motorola
MTD20P03HDL	-30	0.099	19		D-PAK	2SJ401		Motorola
MTD20P06HDL	-60	0.15	15		D-PAK	2SJ377	A	Motorola
MTD2955E	-60	0.3	12		D-PAK	2SJ312	B	Motorola
MTD2955V	-60	0.3	12		D-PAK	2SJ377	A	Motorola
MTD2N40E	400	3.5	2		D-PAK			Motorola
MTD2N50E	500	3.6	2		D-PAK	2SK2599	B	Motorola
MTD3055E	60	0.15	8		D-PAK	2SK2231	A	Motorola
MTD3055EL	60	0.18	12		D-PAK	2SK2231	A	Motorola
MTD3055V	60	0.15	8		D-PAK	2SK2231	A	Motorola
MTD3055VL	60	0.18	12		D-PAK	2SK2231	A	Motorola
MTD3N20E	200	1.5	3		D-PAK	2SK2920	A	Motorola
MTD3N25E	250	1.4	3		D-PAK			Motorola
MTD4N20	200	0.7	4		D-PAK	2SK2920	A	Motorola
MTD4N20E	200	1.2	4		D-PAK	2SK2920	A	Motorola
MTD5N25E	250	1	5		D-PAK			Motorola
MTD5P06E	-60	0.55	5		D-PAK	2SJ377	A	Motorola
MTD5P06V	-60	0.45	5		D-PAK	2SJ377	A	Motorola
MTD6N10E	100	0.4	6		D-PAK	2SK2201	A	Motorola
MTD6N15	150	0.3	6		D-PAK			Motorola
MTD6N20E	200	0.7	6		D-PAK	2SK2920	A	Motorola
MTD6P10E	-100	0.66	6		D-PAK			Motorola
MTD8N06E	60	0.12	8		D-PAK	2SK2782	A	Motorola
MTD9N10E	100	0.25	9		D-PAK	2SK2399	A	Motorola
MTDF1N02HD	20	0.135	1.5		Micro-8(DUAL)			Motorola
MTDF1N03HD	30	0.135	1.5		Micro-8(DUAL)			Motorola
MTDF1P02HD	-20	0.175	-1.3		Micro-8(Dual)			Motorola
MTE125N20E	200	0.015	125		ISOTOP			Motorola
MTE215N10E	100	0.0055	215		ISOTOP			Motorola
MTE30N50E	500	0.15	30	250	ISOTOP			Motorola
MTE53N50E	500	0.08	53		ISOTOP			Motorola
MTM12P10	-100	0.3	12		TO-3(METAL)			Motorola
MTM15N40E	400	0.3	15		TO-3(METAL)			Motorola
MTP10N10E	100	0.25	10		TO-220AB	2SK2399	B	Motorola
MTP10N10EL	100	0.22	10	40	TO-220AB	2SK2399	B	Motorola
MTP10N15	150	0.3	10		TO-220AB	2SK2382	B	Motorola
MTP10N40E	400	0.55	10		TO-220AB	2SK2841	A	Motorola
MTP12N10E	100	0.16	12		TO-220AB	2SK2314	A	Motorola
MTP12N20	200	0.35	12		TO-220AB	2SK2382	B	Motorola
MTP12P06	-60	0.3	12		TO-220AB	2SJ304	B	Motorola
MTP12P10	-100	0.3	12		TO-220AB	2SJ380	B	Motorola
MTP13P06V	-60	0.2	13		TO-220AB	2SJ438	B	Motorola
MTP15N05E	50	0.1	15		TO-220AB	2SK2507	B	Motorola
MTP15N05EL	50	0.1	15		TO-220AB	2SK2507	B	Motorola
MTP15N06E	60	0.12	15		TO-220AB	2SK2232	B	Motorola
MTP15N06V	60	0.12	15		TO-220AB	2SK2232	B	Motorola
MTP15N06VL	60	0.085	15	60	TO-220AB	2SK2232	B	Motorola

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
MTP15N15	150	0.25	15		TO-220AB	2SK2382	B	Motorola
MTP16N25E	250	0.25	16	125	TO-220AB	2SK2508	B	Motorola
MTP16P06V	-60	0.16	17		TO-220AB	2SJ349	B	Motorola
MTP1N100E	1000	9	1		TO-220AB	2SK1119	A	Motorola
MTP1N50E	500	5	1		TO-220AB	2SK2661	A	Motorola
MTP1N60E	600	8	1		TO-220AB	2SK3067	B	Motorola
MTP1N80E	800	12	1	48	TO-220AB	2SK2997	B	Motorola
MTP20N06	60	0.085	20		TO-220AB	2SK2232	B	Motorola
MTP20N06V	60	0.085	20		TO-220AB	2SK2232	B	Motorola
MTP20N20E	200	0.16	20		TO-220AB	2SK2382	B	Motorola
MTP23P06	-60	0.12	23		TO-220AB	2SJ349	B	Motorola
MTP23P06V	-60	0.12	23	125	TO-220AB	2SJ349	B	Motorola
MTP25N06V	60	0.06	25		TO-220AB	2SK2232	B	Motorola
MTP25P06V	-60	0.09	25		TO-220AB	2SJ349	B	Motorola
MTP27N10E	100	0.07	27	125	TO-220AB	2SK2314	A	Motorola
MTP2955E	-60	0.3	12		TO-220AB	2SJ438	B	Motorola
MTP2955V	-60	0.3	10		TO-220AB	2SJ438	B	Motorola
MTP2N20	200	1.8	2		TO-220AB	2SK2381	B	Motorola
MTP2N40E	400	3.5	2		TO-220AB	2SK2679	B	Motorola
MTP2N50E	500	3.6	2		TO-220AB	2SK2862	B	Motorola
MTP2N60E	600	3.8	2		TO-220AB	2SK3085	A	Motorola
MTP2P50E	-500	6	2		TO-220AB			Motorola
MTP3055E	60	0.15	12		TO-220AB	2SK2231	B	Motorola
MTP3055EL	60	0.18	12		TO-220AB	2SK2231	B	Motorola
MTP3055V	60	0.15	12		TO-220AB	2SK2231	B	Motorola
MTP3055VL	60	0.18	12	48	TO-220AB	2SK2231	B	Motorola
MTP30N06EL	60	0.05	30		TO-220AB	2SK2232	B	Motorola
MTP30N06VL	60	0.05	30	90	TO-220AB	2SK2232	B	Motorola
MTP30P06V	-60	0.06	34		TO-220AB	2SJ349	B	Motorola
MTP33N10E	100	0.06	33		TO-220AB	2SK2466	B	Motorola
MTP35N06ZL	60	0.026	35	94	TO-220AB	2SK2385	B	Motorola
MTP36N06E	60	0.04	36		TO-220AB	2SK2385	B	Motorola
MTP36N06V	60	0.04	32		TO-220AB	2SK2385	B	Motorola
MTP3N100E	1000	4	3		TO-220AB	2SK1119	A	Motorola
MTP3N120E	1200	5	1.5		TO-220AB			Motorola
MTP3N25E	250	1.4	3		TO-220AB	2SK2840	B	Motorola
MTP3N50E	500	3	3		TO-220AB	2SK2862	B	Motorola
MTP3N60E	600	2.2	3		TO-220AB	2SK3085	A	Motorola
MTP4N40E	400	1.8	4		TO-220AB	2SK2679	B	Motorola
MTP4N50E	500	1.5	4		TO-220AB	2SK2661	A	Motorola
MTP4N80E	800	3	4		TO-220AB	2SK2603	A	Motorola
MTP50N05E	50	0.028	50		TO-220AB	2SK2886	B	Motorola
MTP50N06E	60	0.025	50		TO-220AB	2SK2312	B	Motorola
MTP50N06EL	60	0.028	50		TO-220AB	2SK2385	B	Motorola
MTP50N06V	60	0.028	45		TO-220AB	2SK2385	B	Motorola
MTP50N06VL	60	0.032	42	150	TO-220AB	2SK2385	B	Motorola
MTP50P03HDL	-30	0.03	50		TO-220AB			Motorola
MTP52N06V	60	0.022	52	150	TO-220AB	2SK2312	B	Motorola
MTP52N06VL	60	0.024	52	150	TO-220AB	2SK2312	B	Motorola
MTP55N06Z	60	0.018	55	136	TO-220AB	2SK2312	B	Motorola

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**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
MTP5N40E	400	1	5		TO-220AB	2SK2679	B	Motorola
MTP5P06V	-60	0.45	5	40	TO-220AB	2SJ438	B	Motorola
MTP5P25	-250	3	5		TO-220AB	2SJ512	B	Motorola
MTP60N06HD	60	0.014	60		TO-220AB	2SK2312	B	Motorola
MTP6N10	100	0.8	6		TO-220AB			Motorola
MTP6N60E	600	1.2	6		TO-220AB	2SK2544	A	Motorola
MTP6P20E	-200	1	6		TO-220AB	2SJ407	B	Motorola
MTP75N03HDL	30	0.007	75		TO-220AB			Motorola
MTP75N05HD	50	0.0095	75		TO-220AB	2SK2985	B	Motorola
MTP75N06HD	60	0.01	75		TO-220AB	2SK2985	B	Motorola
MTP7N20	200	0.7	7		TO-220AB	2SK2381	B	Motorola
MTP7N20E	250	0.7	7	75	TO-220AB	2SK2914	A	Motorola
MTP7P06	-60	0.6	7		TO-220AB	2SJ438	B	Motorola
MTP7P06V	-60	0.5	7		TO-220AB	2SJ438	B	Motorola
MTP8N20	200	0.4	8		TO-220AB	YTA630	A	Motorola
MTP8N50E	500	0.8	8		TO-220AB	2SK2542	A	Motorola
MTP8P10	-100	0.4	8		TO-220AB	2SJ380	B	Motorola
MTP8P20	-200	0.4	8		TO-220AB	2SJ513	B	Motorola
MTP9N25E	250	0.5	9	75	TO-220AB	2SK2914	A	Motorola
MTSF1P02HD	20	0.16	1.1		Micro-8			Motorola
MTSF2P02HD	-20		-3		Micro-8			Motorola
MTSF2P03HD	-30	0.09	-2.7		Micro-8			Motorola
MTSF3N02HD	20	0.04	4		Micro-8			Motorola
MTSF3N03HD	30	0.045	3		Micro-8			Motorola
MTV10N100E	1000	1.3	10	250	D3-PAK			Motorola
MTV16N50E	500	0.4	16	250	D3-PAK	2SK2698	B	Motorola
MTV20N50E	500	0.24	20	250	D3-PAK	2SK3117	A	Motorola
MTV25N50E	500	0.2	25	250	D3-PAK	2SK3117	A	Motorola
MTV32N20E	200	0.075	32	180	D3-PAK			Motorola
MTV32N25E	250	0.08	32	250	D3-PAK	2SK2967	B	Motorola
MTV6N100E	1000	1.5	6	178	D3-PAK			Motorola
MTW10N100E	1000	1.3	10		TO-247	2SK1489	B	Motorola
MTW10N40E	400	0.55	10		TO-247	2SK2841	B	Motorola
MTW14N50E	500	0.32	14		TO-247	2SK2698	A	Motorola
MTW14P20	-200	0.5	14		TO-247	2SJ513	B	Motorola
MTW15N25E	250	0.28	15		TO-247	2SK2508	B	Motorola
MTW16N40E	400	0.3	16		TO-247	2SK2837	A	Motorola
MTW20N20E	200	0.15	20		TO-247	YTA640	B	Motorola
MTW20N50E	500	0.24	20		TO-247	2SK2837	A	Motorola
MTW20P10	-100	0.15	20		TO-247	2SJ464	B	Motorola
MTW23N25E	250	0.14	23		TO-247	2SK2967	A	Motorola
MTW24N40E	400	0.16	24		TO-247	2SK1544	B	Motorola
MTW26N15E	150	0.095	13		TO-247			Motorola
MTW32N20E	200	0.075	32		TO-247	2SK3176	A	Motorola
MTW32N25E	250	0.1	32		TO-247	2SK2967	A	Motorola
MTW33N10E	100	0.058	33		TO-247	2SK2466	B	Motorola
MTW35N15E	150	0.065	35		TO-247			Motorola
MTW45N10E	100	0.035	45		TO-247	2SK1381	A	Motorola
MTW4N80E	800	3	4		TO-247	2SK2603	B	Motorola
MTW54N05E	50	0.014	54		TO-247	2SK2551	A	Motorola



**Power MOSFETs Cross Reference**
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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
MTW6N100E	1000	1.5	6		TO-247	2SK2613	A	Motorola
MTW6N60E	600	1.2	6		TO-247	2SK2602	A	Motorola
MTW7N80E	800	1	7		TO-247	2SK2607	A	Motorola
MTW8N50E	500	0.6	8		TO-247	2SK2600	B	Motorola
MTW8N60E	600	0.5	8		TO-247	2SK2915	A	Motorola
MTY100N10E	100	0.01	100		TO-264			Motorola
MTY10N100E	1000	1.3	10		TO-264	2SK1489	A	Motorola
MTY14N100E	1000	0.8	14	568	TO-264	2SK1489	A	Motorola
MTY16N80E	800	0.5	16	568	TO-264			Motorola
MTY20N50E	500	0.26	20	300	TO-264	2SK2837	B	Motorola
MTY25N60E	600	0.5	25		TO-264	2SK2915	B	Motorola
MTY30N50E	500	0.14	30		TO-264	2SK1544	A	Motorola
MTY55N20E	200	0.028	55		TO-264			Motorola
NDC631N	20	0.06	4.1	1.6	SSOT-6(Single)			Fairchild
NDC632P	-20	0.14	-2.7	1.6	SSOT-6(Single)			Fairchild
NDC651N	30	0.06	3.2	1.6	SSOT-6(Single)			Fairchild
NDC652P	-30	0.11	-2.4	1.6	SSOT-6(Single)			Fairchild
NDC7001C	50/-50	2/5	0.51/-0.34	0.96	SSOT-6(P&N)			Fairchild
NDC7002N	50	2	0.51	0.96	SSOT-6(Dual)			Fairchild
NDC7003P	-50	5	-0.34	0.96	SSOT-6(Dual)			Fairchild
NDF0610	-60	10	-0.18	0.8	TO-92			Fairchild
NDH8301N	20	0.06	3	0.8	SSOT-8(Dual)			Fairchild
NDH8302P	-20	0.13	-2	0.8	SSOT-8(Dual)			Fairchild
NDH8303N	20	0.035	3.8	0.8	SSOT-8(Dual)			Fairchild
NDH8304P	-20	0.07	-2.7	0.8	SSOT-8(Dual)			Fairchild
NDH831N	20	0.03	5.8	1.8	SSOT-8(Single)			Fairchild
NDH8320C	20/-20	0.06/0.13	3/-2	0.8	SSOT-8(P&N)			Fairchild
NDH8321C	20/-20	0.035/0.07	3.8/-2.7	0.8	SSOT-8(P&N)			Fairchild
NDH832P	-20	0.06	-4.2	1.8	SSOT-8(Single)			Fairchild
NDH833N	20	0.02	7.1	1.8	SSOT-8(Single)			Fairchild
NDH834P	-20	0.035	-5.6	1.8	SSOT-8(Single)			Fairchild
NDH8436	30	0.03	5.8	1.8	SSOT-8(Single)			Fairchild
NDH8447	-30	0.053	-4.4	1.8	SSOT-8(Single)			Fairchild
NDH8501N	30	0.07	2.8	0.8	SSOT-8(Dual)			Fairchild
NDH8502P	-30	0.11	-2.2	0.8	SSOT-8(Dual)	SSM8J01FU	B	Fairchild
NDH8503N	30	0.033	3.8	0.8	SSOT-8(Dual)			Fairchild
NDH8504P	-30	0.07	-2.7	0.8	SSOT-8(Dual)			Fairchild
NDH8520C	30/-30	0.07/0.11	2.8/-2.2	0.8	SSOT-8(P&N)			Fairchild
NDH8521C	30/-30	0.033/0.07	3.8/-2.7	0.8	SSOT-8(P&N)			Fairchild
NDH853N	30	0.017	7.6	1.8	SSOT-8(Single)			Fairchild
NDH854P	-30	0.032	-5.1	1.8	SSOT-8(Single)			Fairchild
NDM3000	30/-30	0.09/0.16	3/-3	2.5	SOIC-16(3NP)			Fairchild
NDM3001	30/-30	0.115/0.24	2.9/-2.9	2.5	SOIC-16(3NP)			Fairchild
NDP4050	50	0.1	15	50	TO-220AB			Fairchild
NDP4050L	50	0.18	15	50	TO-220AB			Fairchild
NDP4060	60	0.1	15	50	TO-220AB	2SK2232	B	Fairchild
NDP4060L	60	0.08	15	50	TO-220AB	2SK2232	B	Fairchild
NDP408A	80	0.16	12	50	TO-220AB			Fairchild
NDP410A	100	0.25	9	50	TO-220AB	2SK2399	B	Fairchild
NDP5060	60	0.05	26	60	TO-220AB	2SK2232	B	Fairchild

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
NDP5060L	60	0.035	26	60	TO-220AB	2SK2385	B	Fairchild
NDP508A	80	0.08	19	75	TO-220AB			Fairchild
NDP510A	100	0.12	15	75	TO-220AB	2SK2314	A	Fairchild
NDP6020	20	0.023	35	50	TO-220AB			Fairchild
NDP6020P	-20	0.05	-24	50	TO-220AB			Fairchild
NDP6030L	30	0.0135	52	75	TO-220AB	2SK3127	B	Fairchild
NDP6030PL	-30	0.025	-30	75	TO-220AB			Fairchild
NDP603AL	30	0.022	25	50	TO-220AB	2SK2844	A	Fairchild
NDP6050	50	0.025	48	100	TO-220AB	2SK2886	B	Fairchild
NDP6050L	50	0.02	48	100	TO-220AB	2SK2886	B	Fairchild
NDP6051	50	0.022	48	100	TO-220AB	2SK2886	B	Fairchild
NDP6051L	50	0.018	48	100	TO-220AB	2SK2886	B	Fairchild
NDP6060	60	0.025	48	100	TO-220AB	2SK2312	B	Fairchild
NDP6060L	60	0.02	48	100	TO-220AB	2SK2312	B	Fairchild
NDP608A	80	0.042	36	100	TO-220AB	2SK2466	B	Fairchild
NDP610A	100	0.065	26	100	TO-220AB	2SK2314	B	Fairchild
NDP7050	50	0.013	75	150	TO-220AB			Fairchild
NDP7050L	50	0.01	75	150	TO-220AB			Fairchild
NDP7051	50	0.013	70	130	TO-220AB			Fairchild
NDP7051L	50	0.0115	67	130	TO-220AB			Fairchild
NDP7052	50	0.01	75	150	TO-220AB			Fairchild
NDP7052L	50	0.0075	75	150	TO-220AB	2SK2985	B	Fairchild
NDP7060	60	0.013	75	150	TO-220AB	2SK2985	B	Fairchild
NDP7060L	60	0.01	75	150	TO-220AB	2SK2985	B	Fairchild
NDP7061	60	0.016	64	130	TO-220AB	2SK2312	B	Fairchild
NDP7061L	60	0.013	60	130	TO-220AB	2SK2985	B	Fairchild
NDP708A	80	0.022	60	150	TO-220AB			Fairchild
NDP710A	100	0.038	42	150	TO-220AB			Fairchild
NDS0605	-60	5	-0.18	0.36	SOT-23	2SJ168	A	Fairchild
NDS0610	-60	10	-0.12	0.36	SOT-23	2SJ168	A	Fairchild
NDS331N	20	0.16	1.3	0.5	SOT-23	SSM3K01F	A	Fairchild
NDS332P	-20	0.3	-1	0.5	SOT-23	SSM3J01F	A	Fairchild
NDS335N	20	0.11	1.7	0.5	SOT-23	SSM3K01F	A	Fairchild
NDS336P	-20	0.2	-1.2	0.5	SOT-23			Fairchild
NDS351AN	30	0.16	1.2	0.5	SOT-23	SSM3K01F	A	Fairchild
NDS351N	30	0.16	1.1	0.5	SOT-23	SSM3K01F	A	Fairchild
NDS352AP	-30	0.3	-0.9	0.5	SOT-23	SSM3J01F	A	Fairchild
NDS352P	-20	0.35	-0.85	0.5	SOT-23	SSM3J01F	A	Fairchild
NDS355AN	30	0.085	1.7	0.5	SOT-23			Fairchild
NDS355N	30	0.085	1.6	0.5	SOT-23			Fairchild
NDS356AP	-30	0.2	-1.1	0.5	SOT-23			Fairchild
NDS356P	-20	0.21	-1.1	0.5	SOT-23			Fairchild
NDS7002A	60	2	0.28	0.3	SOT-23	2SK1062	A	Fairchild
NDS8330	-20	0.03	-6.5		SOP-8(Single)			Fairchild
NDS8410	30	0.015	10		SOP-8(Single)	TPC8005-H	A	Fairchild
NDS8410A	30	0.012	10.8		SOP-8(Single)	TPC8007-H	A	Fairchild
NDS8410S	30	0.02	8.6		SOP-8(Single)	TPC8001	A	Fairchild
NDS8425	20	0.025	7.4		SOP-8(Single)	TPC8008	A	Fairchild
NDS8426	20	0.015	9.9		SOP-8(Single)	TPC8008	A	Fairchild
NDS8426A	20	0.0135	10.5		SOP-8(Single)	TPC8008	A	Fairchild

**Power MOSFETs Cross Reference**
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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
NDS8433	-20	0.055	-5.2		SOP-8(Single)			Fairchild
NDS8434	-20	0.035	-6.5		SOP-8(Single)			Fairchild
NDS8434A	-20	0.024	-7.8		SOP-8(Single)			Fairchild
NDS8435	-30	0.028	-7		SOP-8(Single)	TPC8106-H	A	Fairchild
NDS8435A	-30	0.023	-7.9		SOP-8(Single)	TPC8106-H	A	Fairchild
NDS8839H	30/-30	0.045/0.09	5.7/4		SOP-8(P&N)	TPC8401	A	Fairchild
NDS8852H	30	0.08	4.3		SOP-8(Single)	TPC8004	A	Fairchild
NDS8852H	30/-30	0.11/0.2	4.3/-3.4	2.5	SOP-8(P&N)			Fairchild
NDS8858H	30/-30	0.035/0.065	6.3/-4.8		SOP-8(P&N)	TPC8401	A	Fairchild
NDS8926	20	0.035	5.5		SOP-8(Dual)	TPC8204	A	Fairchild
NDS8928	20/-20	0.035/0.07	5.5/3.8		SOP-8(P&N)			Fairchild
NDS8934	-20	0.07	-3.8		SOP-8(Dual)			Fairchild
NDS8936	30	0.035	5.3		SOP-8(Dual)	TPCT8203	A	Fairchild
NDS8947	-30	0.065	-4		SOP-8(Dual)	TPC8303	A	Fairchild
NDS8958	30/-30	0.035/0.065	5.3/-4		SOP-8(P&N)	TPC8401	A	Fairchild
NDS8961	30	0.1	3.1		SOP-8(Dual)	TPC8201	A	Fairchild
NDS8963	30	0.16	2.5		SOP-8(Dual)			Fairchild
NDS9400A	-30	0.13	-3.4		SOP-8(Single)			Fairchild
NDS9405	-20	0.1	-4.3		SOP-8(Single)			Fairchild
NDS9407	-60	0.15	-3		SOP-8(Single)			Fairchild
NDS9410A	30	0.028	7.3		SOP-8(Single)	TPC8006-H	A	Fairchild
NDS9410S	30	0.03	7		SOP-8(Single)	TPC8006-H	A	Fairchild
NDS9430	-20	0.06	-5.3		SOP-8(Single)			Fairchild
NDS9435	-30	0.07	-4.6		SOP-8(Single)	TPC8104-H	A	Fairchild
NDS9435A	-30	0.05	-5.3		SOP-8(Single)	TPC8105-H	A	Fairchild
NDS9925A	20	0.06	4.2		SOP-8(Dual)	TPC8202	A	Fairchild
NDS9933	-20	0.11	-3.2		SOP-8(Dual)	TPC8302	A	Fairchild
NDS9933A	-20	0.14	-2.7		SOP-8(Dual)	TPC8302	A	Fairchild
NDS9936	30	0.05	5		SOP-8(Dual)	TPC8201	A	Fairchild
NDS9942	20/-20	0.125/0.2	3/-2.5		SOP-8(P&N)			Fairchild
NDS9943	20/-25	0.125/0.16	3/-2.8		SOP-8(P&N)			Fairchild
NDS9945	60	0.1	3.5		SOP-8(Dual)			Fairchild
NDS9947	-20	0.1	-3.5		SOP-8(Dual)	TPC8302	A	Fairchild
NDS9948	-60	0.25	-2.3		SOP-8(Dual)	TPC8304	A	Fairchild
NDS9952A	30/-30	0.08/0.13	3.7/-2.9		SOP-8(P&N)	TPC8401	A	Fairchild
NDS9952A	30/-30	0.08/0.13	3.7/-2.9	2	SOP-8(P&N)	TPC8401	A	Fairchild
NDS9953A	-30	0.13	-2.9		SOP-8(Dual)	TPC8301	A	Fairchild
NDS9955	50	0.13	3		SOP-8(Dual)	TPC8205	A	Fairchild
NDS9956A	30	0.08	3.7		SOP-8(Dual)	TPC8201	A	Fairchild
NDS9957	60	0.16	2.6		SOP-8(Dual)	TPC8205	A	Fairchild
NDS9958	20/-20	0.1/0.1	3.5/-3.5		SOP-8(P&N)			Fairchild
NDS9958	20/-20	0.1/0.1	3.5/-3.5	2	SOP-8(P&N)			Fairchild
NDS9959	50	0.3	2		SOP-8(Dual)	TPC8205	A	Fairchild
NDT014	60	0.2	2.7	3	SOT-223	2SK2741	A	Fairchild
NDT014L	60	0.16	2.8	3	SOT-223	2SK2741	A	Fairchild
NDT2955	-60	0.3	-2.5	3	SOT-223	2SJ482	A	Fairchild
NDT3055	60	0.1	4	3	SOT-223			Fairchild
NDT3055L	60	0.1	3.7	3	SOT-223			Fairchild
NDT410EL	100	0.25	2.1	3	SOT-223			Fairchild
NDT451AN	30	0.035	7.2	3	SOT-223	2SK2839	A	Fairchild

**Power MOSFETs Cross Reference**
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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
NDT451N	30	0.05	5.5	3	SOT-223	2SK2839	A	Fairchild
NDT452AP	-30	0.065	-5	3	SOT-223			Fairchild
NDT452P	-30	0.18	-3	3	SOT-223			Fairchild
NDT453N	30	0.028	8	3	SOT-223			Fairchild
NDT454P	-30	0.05	-5.9	3	SOT-223			Fairchild
NDT455N	30	0.015	11.5	3	SOT-223			Fairchild
NDT456P	-30	0.03	-7.5	3	SOT-223			Fairchild
PHB36N06E	60	0.038	41	125	D2PAK	2SK2266	A	Philips
PHP10N10E	100	0.038	41	125	TO220AB			Philips
PHP10N40E	400	0.55	10	125	TO220AB	2SK2841	A	Philips
PHP12N10E	100	0.16	14	75	TO220AB	2SK2314	A	Philips
PHP15N06E	60	0.13	15	60	TO220AB	2SK2231	B	Philips
PHP18N20E	200	0.18	18	136	TO220AB	YTA640	A	Philips
PHP1N50E	500	5	2	50	TO220AB	2SK2862	B	Philips
PHP1N60E	600	6	1.9	50	TO220AB	2SK3067	B	Philips
PHP20N06E	60	0.08	22	75	TO220AB	2SK2232	B	Philips
PHP26N10E	100	0.08	26	125	TO220AB	2SK2314	A	Philips
PHP2N40E	400	3.5	2.5	50	TO220AB	2SK2862	B	Philips
PHP2N60E	600	4.4	2.6	75	TO220AB	2SK3067	B	Philips
PHP3055E	60	0.15	12	40	TO220AB	2SK2231	B	Philips
PHP3055L	60	0.18	12	40	TO220AB	2SK2231	B	Philips
PHP33N10	100	0.057	34	150	TO220AB	2SK2466	B	Philips
PHP36N06E	60	0.038	41	125	TO220AB	2SK2385	B	Philips
PHP3N20E	200	1.5	3.5	20	TO220AB	2SK2381	B	Philips
PHP3N50E	500	3	3.2	75	TO220AB	2SK2862	B	Philips
PHP3N60E	600	2.2	4.3	100	TO220AB	2SK3085	A	Philips
PHP4N40E	400	1.8	4.2	75	TO220AB	2SK2679	B	Philips
PHP4N50E	500	1.5	5.3	100	TO220AB	2SK2661	A	Philips
PHP50N06	60	0.028	52	150	TO220AB	2SK2385	B	Philips
PHP5N20E	200	0.8	5	40	TO220AB	2SK2381	B	Philips
PHP5N40E	400	1	6.5	100	TO220AB	2SK2679	B	Philips
PHP6N60E	600	1.2	6.5	125	TO220AB	2SK2544	A	Philips
PHP8N20E	200	0.4	9.2	90	TO220AB	YTA630	A	Philips
PHP8N50E	500	0.8	8	125	TO220AB			Philips
PHX15N06E	60	0.08	13	25	TO-220IS	2SK2232	A	Philips
PHX1N40E	400	3.5	1.75	25	TO-220IS	2SK2862	A	Philips
PHX1N50E	500	5	1.4	25	TO-220IS	2SK2862	A	Philips
PHX1N60E	600	6	1.3	25	TO-220IS	2SK3067	A	Philips
PHX2N40E	400	1.8	2.4	25	TO-220IS	2SK2679	A	Philips
PHX2N50E	500	3	1.9	25	TO-220IS	2SK2862	A	Philips
PHX2N60E	600	2.2	2.4	30	TO-220IS	2SK2750	A	Philips
PHX4N40E	400	1	3.6	30	TO-220IS	2SK2679	A	Philips
PHX4N50E	500	1.5	2.9	30	TO-220IS	2SK2662	A	Philips
PHX4N60E	600	1.2	3.2	30	TO-220IS	2SK2545	A	Philips
PHX5N40E	400	0.55	4.9	30	TO-220IS	2SK2952	A	Philips
PHX5N50E	500	0.8	4	30	TO-220IS			Philips
RF1K49086	30	0.06	3.5		SOP-8(Dual)	TPC8201	A	Harris
RF1K49088	30	0.06	3.5		SOP-8(Dual)	TPC8201	A	Harris
RF1K49090	12	0.05	3.5		SOP-8(Dual)			Harris
RF1K49092	12/-12	0.05/0.13	3.5/-2.5		SOP-8(P&N)			Harris

**Power MOSFETs Cross Reference**
**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
RF1K49092	12/-12	0.05/0.13	3.5/2.5		SOP-8(P&N)			Harris
RF1K49093	-12	0.13	-2.5		SOP-8(Dual)			Harris
RF1K49093	-12	0.13	-3.5		SOP-8(Single)			Harris
RF1K49154	60	0.13	2		SOP-8(Dual)	TPC8205	A	Harris
RF1K49156	30	0.03	6.3		SOP-8(Single)	TPC8001	A	Harris
RF1K49156	30	0.03	6.3		SOP-8(Single)	TPC8006-H	A	Harris
RF1K49157	30	0.03	6.3		SOP-8(Single)	TPC8006-H	A	Harris
RF1K49211	12	0.02	7		SOP-8(Single)			Harris
RF1K49221	60	0.13	2.5		SOP-8(Dual)	TPC8205	A	Harris
RF1K49223	-30	0.15	-2.5		SOP-8(Dual)	TPC8301	A	Harris
RF1K49224	30/-30	0.06/0.15	3.5/-2.5		SOP-8(P&N)	TPC8401	A	Harris
RF1S15N06SM	60	0.014	15		D2-PAK	2SK2376	A	Harris
RF1S17N06LSM	60	0.1	17		D2-PAK	2SK2782	B	Harris
RF1S22N10SM	100	0.08	22		D2-PAK	2SK2789	A	Harris
RF1S23N06LESM	60	0.065	23		D2-PAK	2SK2311	A	Harris
RF1S25N06SM	60	0.047	25		D2-PAK	2SK2311	A	Harris
RF1S30N06LESM	60	0.047	30		D2-PAK	2SK2311	A	Harris
RF1S30P05SM	-50	0.065	-30		D2-PAK	2SJ401	A	Harris
RF1S30P06SM	-60	0.075	-30		D2-PAK	2SJ401	A	Harris
RF1S40N10SM	100	0.04	30		D2-PAK	2SK2466	B	Harris
RF1S45N03LSM	30	0.022	45		D2-PAK	2SK3090	A	Harris
RF1S45N06LESM	60	0.028	45		D2-PAK	2SK2266	A	Harris
RF1S45N06SM	60	0.028	45		D2-PAK	2SK2266	A	Harris
RF1S4N100SM	1000	3.5	4.3		D2-PAK	2SK1930	A	Harris
RF1S50N06LESM	60	0.022	50		D2-PAK	2SK2376	A	Harris
RF1S50N06SM	60	0.022	50		D2-PAK	2SK2376	A	Harris
RF1S530SM	100	0.16	14		D2-PAK	2SK2789	A	Harris
RF1S540SM	100	0.077	28		D2-PAK	2SK2789	A	Harris
RF1S60P03SM	-30	0.027	-60		D2-PAK			Harris
RF1S630SM	200	0.4	9		D2-PAK	2SK2401	A	Harris
RF1S640SM	200	0.18	18		D2-PAK	2SK2401	A	Harris
RF1S70N03SM	30	0.01	70		D2-PAK	2SK3127	A	Harris
RF1S70N06SM	60	0.014	70		D2-PAK	2SK2376	A	Harris
RF1S9530SM	100	0.3	12		D2-PAK			Harris
RF1S9540SM	100	0.2	19		D2-PAK	2SK2399	B	Harris
RF1S9630SM	200	0.8	6.5		D2-PAK	2SK2920	B	Harris
RF1S9640SM	200	0.5	11		D2-PAK	2SK2350	B	Harris
RFA100N05E	50	0.01	100		MO-093			Harris
RFB18N10CS	100	0.1	18		TO-220 5PIN			Harris
RFD10P03LSM	-30	0.2	-10		D-PAK			Harris
RFD12N06LESM	60	0.135	12		TO-252	2SK2231	A	Harris
RFD12N06RLE	60	0.135	12		TO-251	2SK2231	A	Harris
RFD14N05	50	0.1	14		TO-251	2SK2231	A	Harris
RFD14N05L	50	0.1	14		TO-251	2SK2231	A	Harris
RFD14N05LSM	50	0.1	14		TO-252	2SK2231	A	Harris
RFD14N05SM	50	0.1	14		TO-252	2SK2231	A	Harris
RFD14N06LSM	60	0.1	14		D-PAK	2SK2782	A	Harris
RFD14N06SM	60	0.1	14		D-PAK	2SK2782	A	Harris
RFD15N06LESM	60	0.065	15		D-PAK	2SK2782	A	Harris
RFD15P05	-50	0.15	15		TO-251	2SJ377	A	Harris

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
RFD15P05SM	-50	0.15	15		TO-252	2SJ377	A	Harris
RFD15P06SM	-60	0.15	-15		D-PAK	2SJ377	A	Harris
RFD16N03LSM	30	0.022	16		D-PAK			Harris
RFD16N05	50	0.047	16		TO-251	2SK2231	A	Harris
RFD16N05L	50	0.047	16		TO-251	2SK2231	A	Harris
RFD16N05LSM	50	0.047	16		TO-252	2SK2231	A	Harris
RFD16N05SM	50	0.047	16		TO-252	2SK2231	A	Harris
RFD16N06LESM	60	0.047	16		D-PAK	2SK2782	A	Harris
RFD16N06SM	60	0.047	16		D-PAK	2SK2782	A	Harris
RFD3055LESM	60	0.15	12		D-PAK	2SK2231	A	Harris
RFD3055RLE	60	0.16	12		TO-251	2SK2231	A	Harris
RFD3055RLESM	60	0.16	12		TO-252	2SK2231	A	Harris
RFD3055SM	60	0.15	12		D-PAK	2SK2231	A	Harris
RFD3N08L	80	0.8	3		TO-251	2SK2201	A	Harris
RFD3N08LSM	80	0.8	3		TO-252	2SK2201	A	Harris
RFD4N06L	60	0.6	4		TO-251	2SK2231	A	Harris
RFD4N06LSM	60	0.6	4		TO-252	2SK2231	A	Harris
RFD7N10LEEM	100	0.3	7		D-PAK	2SK2201	A	Harris
RFD8P03L	-30	0.3	8		TO-251			Harris
RFD8P03LSM	-30	0.3	8		TO-252			Harris
RFD8P05	-50	0.3	8		TO-251	2SJ377	A	Harris
RFD8P05SM	-50	0.3	8		TO-252	2SJ377	A	Harris
RFD8P06ESM	-60	0.3	-8		D-PAK	2SJ377	A	Harris
RFG30P05	-50	0.065	30		TO-247	2SJ402	A	Harris
RFG30P06	-50	0.075	30		TO-247	2SJ402	A	Harris
RFG40N10	100	0.04	40		TO-247	2SK2466	B	Harris
RFG50N05	50	0.022	50		TO-247	2SK2445	A	Harris
RFG50N05L	50	0.022	50		TO-247	2SK2551	A	Harris
RFG60P05E	-50	0.026	60		TO-247			Harris
RFG60P06E	-50	0.03	60		TO-247			Harris
RFG70N06	60	0.014	70		TO-247	2SK2313	A	Harris
RFH10N45	450	0.6	10		TO-218	2SK2601	A	Harris
RFH10N50	500	0.6	10		TO-218	2SK2601	A	Harris
RFH12N35	350	0.5	12		TO-218	2SK2698	A	Harris
RFH12N40	400	0.5	12		TO-218	2SK2841	B	Harris
RFH25N18	180	0.15	25		TO-218	2SK2382	B	Harris
RFH25N20	200	0.12	27		TO-218	2SK2382	B	Harris
RFH25P08	-80	0.15	25		TO-218			Harris
RFH25P10	-100	0.15	25		TO-218	2SJ464	B	Harris
RFH30N12	120	0.075	30		TO-218			Harris
RFH30N15	150	0.075	30		TO-218			Harris
RFH35N08	80	0.055	35		TO-218	2SK2466	B	Harris
RFH35N10	100	0.055	35		TO-218	2SK2466	B	Harris
RFH45N05	50	0.04	45		TO-218	2SK2398	A	Harris
RFH45N06	60	0.04	45		TO-218	2SK2398	A	Harris
RFH75N05E	50	0.01	75		TO-218	2SK2551	A	Harris
RFP10N12	120	0.3	10		TO-220AB	2SK2314	A	Harris
RFP10N12L	120	0.3	10		TO-220AB	2SK2314	A	Harris
RFP10N15	150	0.3	10		TO-220AB	2SK2382	B	Harris
RFP10N15L	150	0.3	10		TO-220AB	2SK2382	B	Harris

**Power MOSFETs Cross Reference**
**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
RFP10P12	-120	0.5	10		TO-220AB	2SJ407	B	Harris
RFP10P15	-150	0.5	10		TO-220AB	2SJ513	B	Harris
RFP12N06RLE	60	0.135	12		TO-220AB	2SK2231	B	Harris
RFP12N08	80	0.2	12		TO-220AB	2SK2314	A	Harris
RFP12N08L	80	0.2	12		TO-220AB	2SK2314	A	Harris
RFP12N10	100	0.2	12		TO-220AB	2SK2399	B	Harris
RFP12N10L	100	0.2	12		TO-220AB	2SK2399	B	Harris
RFP12N18	180	0.25	12		TO-220AB	2SK2382	B	Harris
RFP12N20	200	0.2	12.5		TO-220AB	YTA640	A	Harris
RFP12P08	-80	0.3	12		TO-220AB	2SJ380	B	Harris
RFP12P10	-100	0.3	12		TO-220AB	2SJ380	B	Harris
RFP14N05	50	0.1	14		TO-220AB	2SK2507	B	Harris
RFP14N05L	50	0.1	14		TO-220AB	2SK2507	B	Harris
RFP15N05	50	0.14	15		TO-220AB	2SK2232	B	Harris
RFP15N05L	50	0.14	15		TO-220AB	2SK2232	B	Harris
RFP15N06	60	0.14	15		TO-220AB	2SK2231	B	Harris
RFP15N06L	60	0.14	15		TO-220AB	2SK2231	B	Harris
RFP15N08L	80	0.14	15		TO-220AB	2SK2314	A	Harris
RFP15N12	120	0.15	15		TO-220AB	2SK2401	A	Harris
RFP15N15	150	0.15	15		TO-220AB	2SK2401	A	Harris
RFP15P05	-50	0.15	15		TO-220AB	2SJ349	A	Harris
RFP17N06L	60	0.1	17		TO-220AB	2SK2232	B	Harris
RFP18N08	80	0.1	18		TO-220AB	2SK2391	B	Harris
RFP18N10	100	0.1	18		TO-220AB	2SK2314	A	Harris
RFP22N10	100	0.08	22		TO-220AB	2SK2314	A	Harris
RFP25N05	50	0.047	25		TO-220AB	2SK2507	B	Harris
RFP25N05L	50	0.047	25		TO-220AB	2SK2507	B	Harris
RFP2N08	80	1.05	2		TO-220AB	2SK2201	B	Harris
RFP2N08L	80	1.05	2		TO-220AB	2SK2201	B	Harris
RFP2N10	100	1.05	2		TO-220AB	2SK2201	B	Harris
RFP2N10L	100	1.05	2		TO-220AB	2SK2201	B	Harris
RFP2N12	120	1.75	2		TO-220AB	2SK2381	B	Harris
RFP2N12L	120	1.75	2		TO-220AB	2SK2381	B	Harris
RFP2N15	150	1.75	2		TO-220AB	2SK2381	B	Harris
RFP2N15L	150	1.75	2		TO-220AB	2SK2381	B	Harris
RFP2N18	180	3.5	2		TO-220AB	2SK2381	B	Harris
RFP2N18L	180	3.5	2		TO-220AB	2SK2381	B	Harris
RFP2N20	200	3.5	2		TO-220AB	2SK2381	B	Harris
RFP2N20L	200	3.5	2		TO-220AB	2SK2381	B	Harris
RFP2P08	-80	3.5	2		TO-220AB	2SJ380	B	Harris
RFP2P10	-100	3.5	2		TO-220AB			Harris
RFP3055RLE	60	0.16	12		TO-220AB	2SK2231	B	Harris
RFP30P05	-50	0.065	30		TO-220AB	2SJ334	B	Harris
RFP30P06	-60	0.075	30		TO-220AB	2SJ349	B	Harris
RFP3N45	450	3	3		TO-220AB	2SK2862	B	Harris
RFP3N50	500	3	3		TO-220AB	2SK2862	B	Harris
RFP40N10	100	0.04	40		TO-220AB	2SK2466	B	Harris
RFP4N05	50	0.95	4		TO-220AB	2SK2231	B	Harris
RFP4N05L	50	0.6	4		TO-220AB	2SK2231	B	Harris
RFP4N06	60	0.8	4		TO-220AB			Harris

**Power MOSFETs Cross Reference**
**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
RFP4N06L	60	0.6	4		TO-220AB			Harris
RFP4N100	1000	3.5	4.3		TO-220AB	2SK1119	A	Harris
RFP4N35	350	2	4		TO-220AB	2SK2679	B	Harris
RFP4N40	400	2	4		TO-220AB	2SK2679	B	Harris
RFP50N05	50	0.022	50		TO-220AB	2SK2886	B	Harris
RFP50N05L	50	0.022	50		TO-220AB	2SK2551	B	Harris
RFP5P12	-120	1	5		TO-220AB	2SJ407	B	Harris
RFP5P15	-150	1	5		TO-220AB	2SJ407	B	Harris
RFP6N45	450	1.25	6		TO-220AB	2SK2542	A	Harris
RFP6N50	500	1.25	6		TO-220AB	2SK2542	A	Harris
RFP6P08	-80	0.6	6		TO-220AB	2SJ380	B	Harris
RFP6P10	-100	0.6	6		TO-220AB			Harris
RFP70N06	60	0.014	70		TO-220AB	2SK2312	B	Harris
RFP7N35	350	0.75	7		TO-220AB	2SK2542	A	Harris
RFP7N40	400	0.75	7		TO-220AB	2SK2841	A	Harris
RFP8N18	180	0.5	8		TO-220AB	2SK2467	B	Harris
RFP8N18L	180	0.5	8		TO-220AB	2SK2467	B	Harris
RFP8N20	200	0.6	8		TO-220AB	YTA630	A	Harris
RFP8N20L	200	0.65	8		TO-220AB	YTA630	A	Harris
RFP8P03L	-30	0.3	8		TO-220AB			Harris
RFP8P05	-50	0.3	8		TO-220AB	2SJ438	B	Harris
RFP8P08	-80	0.4	8		TO-220AB	2SJ380	B	Harris
RFP8P10	-100	0.4	8		TO-220AB	2SJ380	B	Harris
RFW2N06RLE	60	0.16	2		DIP			Harris
RLP1N06CLE	60	0.75	1		TO-220AB			Harris
RLP1N08LE	80	0.75	1		TO-220AB			Harris
RLP5N08LE	80	0.12	5.5		TO-220AB	2SK2314	A	Harris
Si2301DS	-12	0.13	2.3		SOT-23			Siliconix
Si2302DS	20	0.085	2.8		SOT-23			Siliconix
Si2303DS	-30	0.24	-1.7	1.25	SOT-23			Siliconix
Si2304DS	30	0.117	2.5	1.25	SOT-23			Siliconix
Si2305DS	-8	0.052	-3.5	1.25	SOT-23			Siliconix
Si2306DS	30	0.057	3.5	1.25	SOT-23			Siliconix
Si2307DS	-30	0.08	3	1.25	SOT-23			Siliconix
Si2308DS	60	0.16	2	1.25	SOT-23			Siliconix
Si2315DS	-12	0.055	-3.5	1.25	SOT-23			Siliconix
Si3441DV	-20	0.1	3.3		TSOP-6			Siliconix
Si3442DV	20	0.07	4		TSOP-6			Siliconix
Si3443DV	-20	0.065	4.4		TSOP-6			Siliconix
Si3445DV	-8	0.042	5.6	2	TSOP-6			Siliconix
Si3446DV	20	0.045	5.3		TSOP-6			Siliconix
Si3447DV	-12	0.05	5.2	2	TSOP-6			Siliconix
Si3454DV	30	0.065	4.2		TSOP-6			Siliconix
Si3455DV	-30	0.1	3.5		TSOP-6			Siliconix
Si3456DV	30	0.045	5.1		TSOP-6			Siliconix
Si3457DV	-30	0.065	4.3		TSOP-6			Siliconix
Si3801DV	-12	0.22	2.3	2	TSOP-6			Siliconix
Si3831DV	-7	0.17	2.4	1.5	TSOP-6			Siliconix
Si3850DV	20/-20	0.5/1.00	1.2/0.85	1.25	TSOP-6(P&N)			Siliconix
Si4410DY	30	0.0135	10		SOP-8(Single)	TPC8005-H	A	Siliconix



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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
Si4412DY	30	0.028	7		SOP-8(Single)	TPC8006-H	A	Siliconix
Si4416DY	30	0.018	9		SOP-8(Single)	TPC8005-H	A	Siliconix
Si4420DY	30	0.009	12.5		SOP-8(Single)	TPC8007-H	A	Siliconix
Si4425DY	-30	0.014	-11		SOP-8(Single)	TPC8103	A	Siliconix
Si4431DY	-30	0.04	-5.8		SOP-8(Single)	TPC8105-H	A	Siliconix
Si4435DY	-30	0.02	-8		SOP-8(Single)	TPC8106-H	A	Siliconix
Si4450DY	60	0.024	7.5		SOP-8(Single)			Siliconix
Si4463DY	-20	0.014	-10		SOP-8(Single)			Siliconix
Si4465DY	-8	0.009	14	2.5	SOP-8(Single)			Siliconix
Si4466DY	20	0.009	13.2		SOP-8(Single)			Siliconix
Si4467DY	-12	0.011	12	2.5	SOP-8(Single)			Siliconix
Si4480DY	80	0.035	6		SOP-8(Single)			Siliconix
Si4482DY	100	0.06	4.6		SOP-8(Single)			Siliconix
Si4532DY	30/-30	0.065/0.085	3.9/-3.5		SOP-8(P&N)	TPC8401	A	Siliconix
Si4539DY	30/-30	0.037/0.053	5.8/-4.9		SOP-8(P&N)	TPC8401	A	Siliconix
Si4542DY	30/-30	0.025/0.032	6.9/-6.1		SOP-8(P&N)	TPC8401	A	Siliconix
Si4544DY	30/-30	0.035/0.045	6.5/-5.7		SOP-8(P&N)	TPC8401	A	Siliconix
Si4558DY	30/-30	0.04/0.06	6/-6		SOP-8(P&N)	TPC8401	A	Siliconix
Si4559EY	60/-60	0.055/0.12	4.5/-3.1		SOP-8(P&N)			Siliconix
Si4562DY	20/-20	0.025/0.033	7.1/-6.2		SOP-8(P&N)			Siliconix
Si4652DY	20/-20	0.025/0.033	7.1/6.2	2	SOP-8(P&N)			Siliconix
Si4806DY	30	0.022/0.25	7.7/2		SOP-8(Dual Gate)			Siliconix
Si4807DY	-30	0.035/1.3	6.0/0.9		SOP-8(Dual Gate)			Siliconix
Si4810DY	30	0.0135	10	2.5	SOP-8(Single)	TPC8005-H	A	Siliconix
Si4812DY	30	0.018	9	2.5	SOP-8(Single)	TPC8005-H	A	Siliconix
Si4812DY	30	0.018	9		SOP-8(N&SBD)			Siliconix
Si4820DY	30	0.0135	10	2.5	SOP-8(Single)	TPC8005-H	A	Siliconix
Si4822DY	30	0.01	12		SOP-8(Single)	TPC8007-H	A	Siliconix
Si4824DY	30	0.04/0.0175	4.7/9.0		SOP-8(Dual)			Siliconix
Si4832DY	30	0.018	9	2.5	SOP-8(Single)	TPC8005-H	A	Siliconix
Si4833DY	-30	0.085	3.5		SOP-8(P&SBD)			Siliconix
Si4902DY	30/30	0.065/0.028	3.9/5.6		SOP-8(Dual)			Siliconix
Si4920DY	30	0.025	6.9		SOP-8(Dual)	TPC8203	A	Siliconix
Si4920DY	30	0.025	6.9	2	SOP-8(Dual)			Siliconix
Si4925DY	-30	0.032	-6.1		SOP-8(Dual)	TPC8303	A	Siliconix
Si4927DY	-30	0.028	7.4	2.5	SOP-8(Dual)			Siliconix
Si4936DY	30	0.037	5.8		SOP-8(Dual)	TPC8201	A	Siliconix
Si4936DY	30	0.037	5.8	2	SOP-8(Dual)			Siliconix
Si4946EY	60	0.055	4.5		SOP-8(Dual)			Siliconix
Si4947DY	-30	0.085	-3.5		SOP-8(Dual)	TPC8301	A	Siliconix
Si4948EY	-60	0.12	-3.1		SOP-8(Dual)			Siliconix
Si4949DY	60/-30	0.055/0.053	4.5/5.1		SOP-8(P&N)			Siliconix
Si4953DY	-30	0.053	-4.9		SOP-8(Dual)	TPC8303	A	Siliconix
Si4963DY	-20	0.033	-6.2		SOP-8(Dual)			Siliconix
Si4965DY	-8	0.021	8	2	SOP-8(Dual)			Siliconix
Si4966DY	20	0.025	7.1		SOP-8(Dual)	TPC8204	A	Siliconix
Si4967DY	-12	0.023	7.5	2	SOP-8(Dual)			Siliconix
Si4980DY	80	0.075	3.7		SOP-8(Dual)			Siliconix
Si4982DY	100	0.15	2.6		SOP-8(Dual)			Siliconix
Si6331DQ	30	0.028	5.6		TSSOP-28(Triple)			Siliconix

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
Si6332DQ	-30	0.04	4.5		TSSOP-28(Triple)			Siliconix
Si6361DQ	30/-30	0.065/0.085	3.6/3.1		TSSOP-28			Siliconix
Si6410DQ	30	0.014	7.8		TSSOP-8(Dual)	TPCS8003	A	Siliconix
Si6415DQ	-30	0.019	6.5		TSSOP-8(Single)	TPCS8101	A	Siliconix
Si6426DQ	20	0.035	5.4		TSSOP-8(Single)	TPCS8002	A	Siliconix
Si6433DQ	-12	0.06	4		TSSOP-8(Single)			Siliconix
Si6434DQ	30	0.028	5.6		TSSOP-8(Single)	TPCS8001-H	A	Siliconix
Si6435DQ	-30	0.04	4.5		TSSOP-8(Single)	TPCS8101	A	Siliconix
Si6436DQ	30	0.045	4.4		TSSOP-8(Single)	TPCS8001-H	A	Siliconix
Si6447DQ	-20	0.09	3.2		TSSOP-8(Single)			Siliconix
Si6459DQ	-60	0.12	2.6		TSSOP-8(Single)			Siliconix
Si6463DQ	-20	0.02	6.5		TSSOP-8(Single)			Siliconix
Si6465DQ	-8	0.012	8.8	1.5	TSSOP-8(Single)			Siliconix
Si6466DQ	20	0.014	7.8		TSSOP-8(Single)	TPCS8002	A	Siliconix
Si6467DQ	-12	0.014	8	1.5	TSSOP-8(Single)			Siliconix
Si6542DQ	20/-20	0.090/0.170	2.5/1.9		TSSOP-8(P&N)			Siliconix
Si6543DQ	30/-30	0.065/0.085	3.9/2.5		TSSOP-8(P&N)			Siliconix
Si6544DQ	30/-30	0.035/0.045	4/3.5		TSSOP-8(P&N)			Siliconix
Si6552DQ	20/-12	0.080/0.100	2.8/2.5		TSSOP-8(P&N)			Siliconix
Si6562DQ	20/-20	0.035/0.045	4.5/3.5		TSSOP-8(P&N)			Siliconix
Si6801DQ	20/-20	0.160/0.190	1.9/1.7		TSSOP-8(P&N)			Siliconix
Si6802DQ	20	0.075	3.3		TSSOP-8(Single)			Siliconix
Si6803DQ	20/-20	0.095/0.11	2.5/2.3		TSSOP-8(P&N)			Siliconix
Si6820DQ	20	0.16	1.9	1.2	TSSOP-8(N&SBD)			Siliconix
Si6820DQ	20		1.9		SOP-8(N&SBD)			Siliconix
Si6821DQ	-20	0.19	1.7	1.2	TSSOP-8(P&SBD)			Siliconix
Si6821DQ	-20		-1.7		SOP-8(P&SBD)			Siliconix
Si6923DQ	-20	0.05	3.5	1.2	TSSOP-8(P&SBD)			Siliconix
Si6923DQ	-20		-3.5		SOP-8(P&SBD)			Siliconix
Si6925DQ	20	0.05	3.4		TSSOP-8(Dual)	TPCS8201	A	Siliconix
Si6926DQ	20	0.035	4		TSSOP-8(Dual)	TPCS8201	A	Siliconix
Si6928DQ	30	0.035	4		TSSOP-8(Dual)	TPCS8202	A	Siliconix
Si6933DQ	-30	0.045	3.5		TSSOP-8(Dual)	TPCS8301	A	Siliconix
Si6943DQ	-12	0.1	2.5		TSSOP-8(Dual)			Siliconix
Si6946DQ	20	0.08	2.8		TSSOP-8(Dual)			Siliconix
Si6953DQ	-20	0.17	1.9		TSSOP-8(Dual)			Siliconix
Si6954DQ	30	0.065	3.9		TSSOP-8(Dual)	TPCS8202	A	Siliconix
Si6955DQ	-30	0.085	2.5		TSSOP-8(Dual)			Siliconix
Si6956DQ	20	0.09	2.5		TSSOP-8(Dual)			Siliconix
Si6963DQ	-20	0.05	3.5		TSSOP-8(Dual)			Siliconix
Si6965DQ	-20	0.35	-5		TSSOP-8(Dual)			Siliconix
Si6966DQ	20	0.035	4.5		TSSOP-8(Dual)	TPCS8201	A	Siliconix
Si6967DQ	-8	0.03	5	1.1	TSSOP-8(Dual)			Siliconix
Si6968DQ	20	0.022	6.5		TSSOP-8(Dual)	TPCS8201	A	Siliconix
Si6969DQ	-12	0.034	4.6	1.1	TSSOP-8(Dual)			Siliconix
Si9400DY	-20	0.25	-2.5		SOP-8(Single)			Siliconix
Si9405DY	-20	0.1	-4.3		SOP-8(Single)			Siliconix
Si9407AEY	-60	0.12	-3.5		SOP-8(Single)			Siliconix
Si9407DY	-60	0.15	-3		SOP-8(Single)			Siliconix
Si9410DY	30	0.03	7		SOP-8(Single)	TPC8006-H	A	Siliconix

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
Si9420DY	200	1	1		SOP-8(Single)			Siliconix
Si9422DY	200	0.42	1.7		SOP-8(Single)			Siliconix
Si9424ADY	-20	0.025	-7.7		SOP-8(Single)			Siliconix
Si9424DY	-12	0.025	-7.7		SOP-8(Single)			Siliconix
Si9426DY	20	0.0135	10		SOP-8(Single)	TPC8008	A	Siliconix
Si9428DY	20	0.03	6	2.5	SOP-8(Single)			Siliconix
Si9430DY	-20	0.05	-5.8		SOP-8(Single)			Siliconix
Si9431DY	-12	0.05	5.5		SOP-8(Single)			Siliconix
Si9433DY	-20	0.045	-5.4		SOP-8(Single)			Siliconix
Si9434ADY	-20	0.033	6.9		SOP-8(Single)	TPC8102	A	Siliconix
Si9434DY	-12	0.04	-6.4		SOP-8(Single)			Siliconix
Si9435DY	-30	0.055	-5.1		SOP-8(Single)	TPC8105-H	A	Siliconix
Si9529DY	20/-12	0.03/0.05	6/5		SOP-8(P&N)			Siliconix
Si9801DY	20/-20	0.055/0.045	4.5/4.0		SOP-8(P&N)			Siliconix
Si9802DY	20	0.055	4.5		SOP-8(Dual)	TPC8202	A	Siliconix
Si9803DY	-25	0.04	-5.9		SOP-8(Single)	TPC8105-H	A	Siliconix
Si9803DY	-20	0.04	5.9		SOP-8(Single)	TPC8102	A	Siliconix
Si9804DY	25	0.023	7.8		SOP-8(Single)	TPC8006-H	A	Siliconix
Si9806DY	25	0.027	7		SOP-8(Dual G)			Siliconix
Si9902DY	20/20	0.08/0.035	2.8/5.4		SOP-8(Dual)			Siliconix
Si9925DY	20	0.05	5		SOP-8(Dual)	TPC8202	A	Siliconix
Si9926DY	20	0.03	6		SOP-8(Dual)	TPC8204	A	Siliconix
Si9928DY	20/-20	0.05/0.11	5.0/3.4	2	SOP-8(P&N)			Siliconix
Si9933ADY	-20	0.075	-3.4		SOP-8(Dual)			Siliconix
Si9933DY	-20	0.075	-3.4		SOP-8(Dual)	TPC8302	A	Siliconix
Si9934DY	-12	0.05	-5		SOP-8(Dual)			Siliconix
Si9936DY	30	0.05	5		SOP-8(Dual)	TPC8201	A	Siliconix
Si9939DY	30/-30	0.05/0.1	3.5/-3.5		SOP-8(P&N)	TPC8401	A	Siliconix
Si9940DY	50	0.05	5.3		SOP-8(Dual)			Siliconix
Si9942DY	20/-20	0.125/0.2	3/2.5		SOP-8(P&N)			Siliconix
Si9943DY	20/-20	0.125/0.16	3/2.8		SOP-8(P&N)			Siliconix
Si9944DY	240	6	0.4		SOP-8(Dual)			Siliconix
Si9945AEY	60	0.08	3.7		SOP-8(Dual)			Siliconix
Si9945DY	60	0.1	3.3		SOP-8(Dual)			Siliconix
Si9947DY	-20	0.1	-3.5		SOP-8(Dual)	TPC8302	A	Siliconix
Si9948AEY	-60	0.17	-2.6		SOP-8(Dual)	TPC8304	A	Siliconix
Si9948DY	-60	0.28	-2		SOP-8(Dual)	TPC8304	A	Siliconix
Si9952DY	25/-25	0.1/0.25	3.5/2.3		SOP-8(P&N)			Siliconix
Si9953DY	-20	0.25	-2.3		SOP-8(Dual)	TPC8302	A	Siliconix
Si9955DY	50	0.13	3		SOP-8(Dual)	TPC8205	A	Siliconix
Si9956DY	20	0.1	3.5		SOP-8(Dual)	TPC8202	A	Siliconix
Si9958DY	20/-20	0.1/0.1	3.5/3.5		SOP-8(P&N)			Siliconix
Si9959DY	50	0.3	2		SOP-8(Dual)	TPC8205	A	Siliconix
SMB60N03-10L	30	0.01	60	125	D2-PAK	2SK3127	A	Siliconix
SMD10P05	-50	0.28	10	40	D-PAK	2SJ377	A	Siliconix
SMD10P06	-60	0.28	10	42	D-PAK	2SJ377	A	Siliconix
SMD10P06L	-60	0.28	10	40	D-PAK	2SJ377	A	Siliconix
SMD15N05	50	0.1	15	40	D-PAK	2SK2614	A	Siliconix
SMD25N05-45L	50	0.045	25	50	D-PAK	2SK2614	A	Siliconix
SMD30N03-30L	30	0.03	30	50	D-PAK			Siliconix

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
SMP40P06	-60	0.045	40	125	TO-220AB	2SJ349	A	Siliconix
SMP50N06-25	60	0.025	50	131	TO-220AB	2SK2312	B	Siliconix
SMP60N03-10L	30	0.01	60	105	TO-220AB	2SK3127	B	Siliconix
SMP60N06-18	60	0.018	60	125	TO-220AB	2SK2312	B	Siliconix
SMU10P05	-50	0.28	10	40	TO-251	2SJ377	A	Siliconix
SMU15N05	50	0.1	15	40	TO-251	2SK2614	A	Siliconix
SMU25N05-45L	50	0.045	25	50	TO-251	2SK2614	A	Siliconix
SMU30N03-30L	30	0.03	30	50	TO-251			Siliconix
SN7000	60	5	0.25		TO-92			Siemens
SN7002	60	5	0.19		SOT-23			Siemens
SP0610T	-60	10	0.13		SOT-23	2SJ168	A	Siemens
SPA02N60S5	600	2.5	2		TO-220IS	2SK2750	A	Siemens
SPA03N60S5	600	1.4	3		TO-220IS	2SK2545	A	Siemens
SPA04N60S5	600	0.95	4		TO-220IS	2SK2843	A	Siemens
SPA07N60S5	600	0.6	7		TO-220IS			Siemens
SPA20N60S5	600	0.19	20		TO-220IS			Siemens
SPB02N60S5	600	2.5	2		TO-220SM	2SK2777	A	Siemens
SPB03N60S5	600	1.4	3		TO-220SM	2SK2777	A	Siemens
SPB04N60S5	600	0.95	4		TO-220SM	2SK2889	A	Siemens
SPB07N60S5	600	0.6	7		TO-220SM			Siemens
SPB20N60S5	600	0.19	20		TO-220SM			Siemens
SPB30N03	30	0.023	30		D2-PAK	2SK3090	A	Siemens
SPB30N03L	30	0.028	30		D2-PAK	2SK3089	A	Siemens
SPB46N03	30	0.015	46		D2-PAK	2SK3127	A	Siemens
SPB46N03L	30	0.018	46		D2-PAK	2SK3090	A	Siemens
SPB80N03	30	0.006	80		D2-PAK			Siemens
SPB80N03L	30	0.008	80		D2-PAK			Siemens
SPD01N60S5	600	6	1		D-PAK	2SK2865	A	Siemens
SPD02N60	600	5.5	2		D-PAK	2SK2865	A	Siemens
SPD02N60S5	600	2.5	2		D-PAK			Siemens
SPD03N60S5	600	1.4	3		D-PAK			Siemens
SPD04N60S5	600	0.95	4		D-PAK			Siemens
SPD07N20	200	0.4	7		D-PAK			Siemens
SPD07N60S5	600	0.6	7		D-PAK			Siemens
SPD08N05L	55	0.18	8		D-PAK	2SK2231	A	Siemens
SPD08N10	100	0.3	8.4		D-PAK	2SK2201	A	Siemens
SPD08P05	-50	0.3	8		D-PAK	2SJ377	A	Siemens
SPD09N05	55	0.15	9		D-PAK	2SK2231	A	Siemens
SPD10N10	100	0.2	10		D-PAK	2SK2399	A	Siemens
SPD13N05L	55	0.12	12.8		D-PAK	2SK2782	A	Siemens
SPD14N05	55	0.1	14		D-PAK	2SK2782	A	Siemens
SPD21N05L	55	0.07	21		D-PAK	2SK2782	A	Siemens
SPD23N05	55	0.06	23		D-PAK	2SK2782	A	Siemens
SPD28N03	30	0.023	28		D-PAK			Siemens
SPD28N03L	30	0.028	28		D-PAK			Siemens
SPD28N05L	55	0.05	28		D-PAK	2SK2782	A	Siemens
SPD30N03	30	0.015	30		D-PAK			Siemens
SPD30N03L	30	0.018	30		D-PAK			Siemens
SPD31N05	55	0.04	31		D-PAK			Siemens
SPN01N60S5	600	6	1		SOT-223			Siemens

**Power MOSFETs Cross Reference**
**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
SPN02N60S5	600	2.5	2		SOT-223			Siemens
SPN03N60S5	600	1.4	3		SOT-223			Siemens
SPN04N60S5	600	0.95	4		SOT-223			Siemens
SPO01N60S5	600	6	1		SOP-8(Single)			Siemens
SPO02N60S5	600	2.5	2		SOP-8(Single)			Siemens
SPO03N60S5	600	1.4	3		SOP-8(Single)			Siemens
SPO04N60S5	600	0.95	4		SOP-8(Single)			Siemens
SPP02N60S5	600	2.5	2		TO-220AB	2SK3085	A	Siemens
SPP03N60S5	600	1.4	3		TO-220AB	2SK2544	A	Siemens
SPP04N60S5	600	0.95	4		TO-220AB	2SK2866	A	Siemens
SPP07N60S5	600	0.6	7		TO-220AB			Siemens
SPP20N60S5	600	0.19	20		TO-220AB			Siemens
SPP30N03	30	0.023	30		TO-220AB	2SK2844	A	Siemens
SPP30N03L	30	0.028	30		TO-220AB	2SK2844	A	Siemens
SPP46N03	30	0.015	46		TO-220AB			Siemens
SPP46N03L	30	0.018	46		TO-220AB	2SK2844	A	Siemens
SPP80N03	30	0.006	80		TO-220AB			Siemens
SPP80N03L	30	0.008	80		TO-220AB			Siemens
SPU01N60S5	600	6	1		I-PAK	2SK2865	A	Siemens
SPU02N60	600	5.5	2		I-PAK	2SK2865	A	Siemens
SPU02N60S5	600	2.5	2		I-PAK			Siemens
SPU03N60S5	600	1.4	3		I-PAK			Siemens
SPU04N60S5	600	0.95	4		I-PAK			Siemens
SPU07N20	200	0.4	7		I-PAK			Siemens
SPU07N60S5	600	0.6	7		I-PAK			Siemens
SPU08N05L	55	0.18	8		I-PAK	2SK2231	A	Siemens
SPU08N10	100	0.3	8.4		I-PAK	2SK2201	A	Siemens
SPU08P05	-50	0.3	8		I-PAK	2SJ377	A	Siemens
SPU09N05	55	0.15	9		I-PAK	2SK2231	A	Siemens
SPU10N10	100	0.2	10		I-PAK	2SK2399	A	Siemens
SPU13N05L	55	0.12	12.8		I-PAK	2SK2782	A	Siemens
SPU14N05	55	0.1	14		I-PAK	2SK2782	A	Siemens
SPU21N05L	55	0.07	21		I-PAK	2SK2782	A	Siemens
SPU23N05	55	0.06	23		I-PAK	2SK2782	A	Siemens
SPU28N03	30	0.023	28		I-PAK			Siemens
SPU28N03L	30	0.018	28		I-PAK			Siemens
SPU28N05L	55	0.05	28		I-PAK	2SK2782	A	Siemens
SPU30N03	30	0.015	30		I-PAK			Siemens
SPU30N03L	30	0.018	30		I-PAK			Siemens
SPU31N05	55	0.04	31		I-PAK			Siemens
SPW20N60S5	600	0.19	20		TO-247			Siemens
SS1N50A	500	5.5	1.5	36	I2-PAK	2SK2865	B	Samsung
SSD2005	-25	0.25	-2.3		SOP-8(Single)	TPC8106-H	A	Samsung
SSD2007	50	0.3	2		SOP-8(Dual)	TPC8205	A	Samsung
SSD2101	30	0.03	7		SOP-8(Single)	TPC8006-H	A	Samsung
SSD2102	-20	0.06	-5.3		SOP-8(Single)			Samsung
SSF10N60A	600	0.8	6.9	90	TO-3PIS	2SK2699	B	Samsung
SSF10N80A	800	0.95	7	100	TO-3PIS			Samsung
SSF10N90A	900	1.2	7	100	TO-3PIS	2SK3017	A	Samsung
SSF17N60A	600	0.45	9	100	TO-3PIS	2SK2953	A	Samsung

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
SSF22N50A	500	0.25	12.4	100	TO-3PIS	2SK2917	A	Samsung
SSF25N40A	400	0.2	14.3	100	TO-3PIS	2SK1544	B	Samsung
SSF45N20A	200	0.065	26.4	100	TO-3PIS	2SK2995	A	Samsung
SSF4N80AS	800	3	3.5	85	TO-3PIS	2SK2603	B	Samsung
SSF4N90AS	900	3.7	3.5	85	TO-3PIS	2SK2719	B	Samsung
SSF5N80A	800	2.2	4	85	TO-3PIS	2SK2604	B	Samsung
SSF5N90A	900	2.9	4	85	TO-3PIS	2SK2610	B	Samsung
SSF6N70A	700	1.8	5	85	TO-3PIS	2SK2274	B	Samsung
SSF6N80A	800	2	4.2	90	TO-3PIS	2SK2604	B	Samsung
SSF6N90A	900	2.3	4.2	90	TO-3PIS	2SK2610	B	Samsung
SSF70N10A	100	0.023	44	120	TO-3PIS			Samsung
SSF7N60A	600	1.2	5.4	86	TO-3PIS	2SK2602	B	Samsung
SSF7N80A	800	1.8	5	90	TO-3PIS	2SK2746	B	Samsung
SSF7N90A	900	1.8	5	90	TO-3PIS	2SK2847	A	Samsung
SSF8N80A	800	1.5	5.6	95	TO-3PIS	2SK2606	A	Samsung
SSF8N90A	900	1.6	5.6	95	TO-3PIS	2SK2847	A	Samsung
SSF9N80A	800	1.3	6.3	95	TO-3PIS	2SK2606	A	Samsung
SSF9N90A	900	1.4	6.3	100	TO-3PIS	2SK2847	A	Samsung
SSH10N60A	600	0.8	10	193	TO-3P	2SK2699	A	Samsung
SSH10N80A	800	0.95	10	280	TO-3P			Samsung
SSH10N90A	900	1.2	10	280	TO-3P	2SK2968	A	Samsung
SSH17N60A	600	0.45	17	278	TO-3P	2SK2915	A	Samsung
SSH22N50A	500	0.25	22	278	TO-3P	2SK2837	A	Samsung
SSH25N40A	400	0.2	25	278	TO-3P	2SK1544	B	Samsung
SSH45N20A	200	0.065	45	278	TO-3P	2SK3176	A	Samsung
SSH4N80AS	800	3	4.5	140	TO-3P	2SK2603	B	Samsung
SSH4N90AS	900	3.7	4.5	140	TO-3P	2SK2719	A	Samsung
SSH5N80A	800	2.2	5	160	TO-3P	2SK2604	A	Samsung
SSH5N90A	900	2.9	5	160	TO-3P	2SK2610	A	Samsung
SSH6N70A	700	1.8	6	140	TO-3P	2SK2389	B	Samsung
SSH6N80AS	800	2	6	200	TO-3P	2SK2604	A	Samsung
SSH6N90A	900	2.3	6	200	TO-3P	2SK2610	A	Samsung
SSH70N10A	100	0.023	70	300	TO-3P			Samsung
SSH7N60A	600	1.2	7.3	160	TO-3P	2SK2602	A	Samsung
SSH7N80A	800	1.8	7	200	TO-3P	2SK2746	A	Samsung
SSH7N90A	900	1.8	7	240	TO-3P	2SK2611	A	Samsung
SSH8N80A	800	1.5	8	240	TO-3P	2SK2746	A	Samsung
SSH8N90A	900	1.6	8	240	TO-3P	2SK2611	A	Samsung
SSH9N80A	800	1.3	9	240	TO-3P	2SK2607	A	Samsung
SSH9N90A	900	1.4	9	280	TO-3P	2SK2611	A	Samsung
SSI1N60A	600	12	1	34	I2-PAK	2SK2865	B	Samsung
SSI2N60A	600	5	2	54	I2-PAK	2SK2865	B	Samsung
SSI2N80A	800	6	2	80	I2-PAK	2SK2883	A	Samsung
SSI2N90A	900	7	2	80	I2-PAK			Samsung
SSI3N80A	800	4.8	3	100	I2-PAK	2SK2884	A	Samsung
SSI3N90A	900	6.2	3	100	I2-PAK			Samsung
SSI4N60A	600	2.5	4	100	I2-PAK	2SK2777	A	Samsung
SSI4N80A	800	4	4	120	I2-PAK	2SK2884	A	Samsung
SSI4N80AS	800	3	4.5	130	I2-PAK	2SK2883	A	Samsung
SSI4N90A	900	5	4	120	I2-PAK	2SK3088	A	Samsung

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
SSI4N90AS	900	3.7	4.5	130	I2-PAK	2SK3088	A	Samsung
SSI5N80A	800	2.2	5	140	I2-PAK	2SK2884	A	Samsung
SSI5N90A	900	2.9	5	140	I2-PAK			Samsung
SSI6N70A	700	1.8	6	130	I2-PAK			Samsung
SSI7N60A	600	1.2	7	147	I2-PAK	2SK2777	A	Samsung
SSP10N60A	600	0.8	9	156	TO-220AB	2SK2866	A	Samsung
SSP1N50A	500	5.5	1.5	36	TO-220AB	2SK2661	A	Samsung
SSP1N60A	600	12	1	34	TO-220AB	2SK3067	B	Samsung
SSP2N60A	600	5	2	54	TO-220AB	2SK3067	B	Samsung
SSP2N80A	800	6	2	80	TO-220AB	2SK2603	A	Samsung
SSP2N90A	900	7	2	80	TO-220AB	2SK2718	B	Samsung
SSP3N80A	800	4.8	3	100	TO-220AB	2SK2603	A	Samsung
SSP3N90A	900	6.2	3	100	TO-220AB	2SK2718	B	Samsung
SSP45N20A	200	0.065	35	176	TO-220AB			Samsung
SSP4N60AS	600	2.5	4	100	TO-220AB	2SK2750	B	Samsung
SSP4N80A	800	4	4	120	TO-220AB	2SK2603	A	Samsung
SSP4N80AS	800	3	4.5	130	TO-220AB	2SK2603	A	Samsung
SSP4N90A	900	5	4	120	TO-220AB	2SK2608	A	Samsung
SSP4N90AS	900	3.7	4.5	130	TO-220AB	2SK2608	A	Samsung
SSP5N80A	800	2.2	5	140	TO-220AB	2SK2605	B	Samsung
SSP5N90A	900	2.9	5	140	TO-220AB	2SK2717	B	Samsung
SSP6N70A	700	1.8	6	130	TO-220AB	2SK2997	B	Samsung
SSP6N80A	800	2	6	160	TO-220AB	2SK2605	B	Samsung
SSP6N90A	900	2.3	6	160	TO-220AB	2SK2717	B	Samsung
SSP70N10A	100	0.023	55	188	TO-220AB			Samsung
SSP7N60A	600	1.2	7	147	TO-220AB	2SK2544	A	Samsung
SSP7N80A	800	1.8	7	160	TO-220AB			Samsung
SSR1N50A	500	5.5	1.3	26	D-PAK	2SK2865	A	Samsung
SSR1N60A	600	12	0.9	28	D-PAK	2SK2865	A	Samsung
SSR2N60A	600	5	1.8	44	D-PAK	2SK2865	A	Samsung
SSR3055A	60	0.15	8	18	D-PAK	2SK2231	A	Samsung
SSR4N60A	600	2.5	2.8	49	D-PAK			Samsung
SSS10N60A	600	0.8	5.1	50	TO-220IS	2SK2843	A	Samsung
SSS1N50A	500	5.5	1.2	23	TO-220IS	2SK2662	A	Samsung
SSS1N60A	600	12	0.7	17	TO-220IS	2SK3067	A	Samsung
SSS2N60A	600	5	1.3	23	TO-220IS	2SK3067	A	Samsung
SSS2N80A	800	6	1.5	30	TO-220IS	2SK2603	B	Samsung
SSS2N90A	900	7	1.5	30	TO-220IS	2SK2718	A	Samsung
SSS3N80A	800	4.8	2	35	TO-220IS	2SK2603	B	Samsung
SSS3N90A	900	6.2	2	35	TO-220IS	2SK2718	A	Samsung
SSS4N60AS	600	2.5	2.3	33	TO-220IS	2SK2750	A	Samsung
SSS4N80A	800	4	2.5	40	TO-220IS	2SK2603	B	Samsung
SSS4N80AS	800	3	2.8	40	TO-220IS	2SK2603	B	Samsung
SSS4N90A	900	5	2.5	40	TO-220IS	2SK2700	A	Samsung
SSS4N90AS	900	3.7	2.8	40	TO-220IS	2SK2700	A	Samsung
SSS5N80A	800	2.2	3	45	TO-220IS	2SK2605	A	Samsung
SSS5N90A	900	2.9	3	45	TO-220IS	2SK2717	A	Samsung
SSS6N70A	700	1.8	4	40	TO-220IS	2SK2274	A	Samsung
SSS6N80A	800	2	3.5	50	TO-220IS	2SK2605	A	Samsung
SSS6N90A	900	2.3	3.5	50	TO-220IS	2SK2717	A	Samsung

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**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
SSS70N10A	100	0.023	28	49	TO-220IS			Samsung
SSS7N60A	600	1.2	4	48	TO-220IS	2SK2545	A	Samsung
SSS7N80A	800	1.8	4	50	TO-220IS			Samsung
SSU1N50A	500	5.5	1.3	26	I-PAK	2SK2865	A	Samsung
SSU1N60A	600	12	0.9	28	I-PAK	2SK2865	A	Samsung
SSU2N60A	600	5	1.8	44	I-PAK	2SK2865	A	Samsung
SSU2N80A	800	6	1.7	45	I-PAK			Samsung
SSU2N90A	900	7	1.7	45	I-PAK			Samsung
SSU3055A	60	0.15	8	18	I-PAK	2SK2231	A	Samsung
SSU3N80A	800	4.8	2.5	50	I-PAK			Samsung
SSU3N90A	900	6.2	2.5	50	I-PAK			Samsung
SSU4N60A	600	2.5	2.8	49	I-PAK			Samsung
SSW1N50A	500	5.5	1.5	36	D2-PAK	2SK2865	B	Samsung
SSW1N60A	600	12	1	34	D2-PAK	2SK2865	B	Samsung
SSW2N60A	600	5	2	54	D2-PAK	2SK2865	B	Samsung
SSW4N60A	600	2.5	4	100	D2-PAK	2SK2777	A	Samsung
SSW7N60A	600	1.2	7	147	D2-PAK	2SK2777	A	Samsung
STB11NB40	400	0.55	10		D2PAK	2SK2949	A	ST
STB16NB25	250	0.25	16		D2PAK	2SK2598	A	ST
STB19NB20	200	0.18	19		D2PAK	2SK2401	A	ST
STB40NE03L-20	30	0.02	40		D2PAK	2SK3090	A	ST
STB50NE08	80	0.024	50		D2PAK			ST
STB50NE10	100	0.028	50		D2PAK			ST
STB50NE10L	100	0.025	50		D2PAK			ST
STB55NE06	60	0.022	55		D2PAK	2SK2376	A	ST
STB55NE06L	60	0.022	55		D2PAK	2SK2376	A	ST
STB5NB60	600	2	5		D2PAK	2SK2777	A	ST
STB60NE03L-10	30	0.01	60		D2PAK	2SK3127	A	ST
STB60NE06-16	60	0.016	60		D2PAK	2SK2376	A	ST
STB60NE06L-16	60	0.016	60		D2PAK	2SK2376	A	ST
STB6NB50	500	1.5	6		D2PAK	2SK2991	A	ST
STB7NB40	400	0.9	7		D2PAK	2SK2949	A	ST
STB7NB60	600	1.2	7.2		D2PAK	2SK2777	A	ST
STB80NE03L-06	30	0.006	80		D2PAK			ST
STB80NE06-10	60	0.01	80		D2PAK	2SK2986	A	ST
STB9NB50	500	0.85	8.6		D2PAK	2SK2776	A	ST
STB9NB60-1	600	0.75	9		D2PAK	2SK2889	A	ST
STD12N05	50	0.15	12	45	D-PAK	2SK2030	A	ST
STD12N05L	50	0.15	12	45	D-PAK	2SK2231	A	ST
STD12N06	60	0.15	12	45	D-PAK	2SK2231	A	ST
STD12N06L	60	0.15	12	45	D-PAK	2SK2231	A	ST
STD12N10L	100	0.16	12		D-PAK			ST
STD12NE06	60	0.12	12		DPAK	2SK2782	A	ST
STD12NE06L	60	0.12	12		DPAK	2SK2782	A	ST
STD16NE06	60	0.085	16		DPAK	2SK2782	A	ST
STD16NE06L	60	0.085	16		DPAK	2SK2782	A	ST
STD16NE10	100	0.1	16		DPAK			ST
STD17N05	50	0.085	17	55	D-PAK	2SK2614	A	ST
STD17N05L	50	0.085	17	55	D-PAK	2SK2614	A	ST
STD17N06	60	0.085	17	55	D-PAK	2SK2782	A	ST



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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STD17N06L	60	0.085	17	55	D-PAK	2SK2782	A	ST
STD17NE03L	30	0.05	18		D-PAK			ST
STD1NA60-1	600	8	1.6		DPAK	2SK2865	A	ST
STD1NB50-1	500	9	1.5		DPAK	2SK2865	A	ST
STD1NB50S-1	500	16	1		DPAK	2SK2998	B	ST
STD1NB52-1	520	10	1.4		DPAK	2SK2865	A	ST
STD1NB80	800	20	0.87		DPAK			ST
STD20NE03L	30	0.02	20		D-PAK			ST
STD20NE06	60	0.04	20		D-PAK			ST
STD2N50-1	500	5.5	2.2	45	I-PAK	2SK2865	A	ST
STD2NA50	500	4	2.2		DPAK	2SK2599	B	ST
STD2NB25-1	250	2	2		DPAK			ST
STD2NB60	600	3.6	2		DPAK			ST
STD2NB80-1	800	6.5	2		DPAK	2SK2997	A	ST
STD30NE06	60	0.03	30		DPAK			ST
STD30NE06L	60	0.03	30		DPAK			ST
STD3N30-1	300	1.4	3	50	I-PAK			ST
STD3N30L	250	1.1	4	50	I-PAK			ST
STD3N30L-1	300	1.4	3	50	I-PAK			ST
STD3NB30	300	2	3.2		DPAK			ST
STD3NB50	500	2.8	3		DPAK			ST
STD4N20	200	1.5	4		D-PAK	2SK2920	A	ST
STD4NB25	250	1.1	4		DPAK			ST
STD4NB40	400	1.8	3.7		DPAK			ST
STD5N20-1	200	0.8	5		D-PAK	2SK2920	A	ST
STD5NB30	300	0.9	5		DPAK			ST
STD7NB20	200	0.4	7.5		D-PAK			ST
STD8N10	100	0.3	8	45	D-PAK	2SK2201	A	ST
STD8N10L	100	0.3	8	45	D-PAK	2SK2201	A	ST
STD9N10	100	0.27	9		D-PAK	2SK2399	A	ST
STD9N10L	100	0.27	9		D-PAK	2SK2399	A	ST
STE100N20	200	0.021	100	450	ISOTOP			ST
STE110NA20	200	0.019	110		ISOTOP			ST
STE150N10	100	0.009	150	410	ISOTOP			ST
STE15N100	1000	0.77	15	400	ISOTOP			ST
STE15NA100	1000	0.77	15		ISOTOP			ST
STE16N100	1000	0.7	16	400	ISOTOP			ST
STE180N05	50	0.006	180	360	ISOTOP			ST
STE180N10	100	0.007	180	450	ISOTOP			ST
STE22N80	800	0.4	22	400	ISOTOP			ST
STE24NA100	1000	0.375	24		ISOTOP			ST
STE250N05	50	0.004	250	450	ISOTOP			ST
STE250N06	60	0.004	250		ISOTOP			ST
STE26N50	500	0.2	26	300	ISOTOP			ST
STE26NA90	900	0.3	26		ISOTOP			ST
STE36N50	500	0.14	36	410	ISOTOP			ST
STE38N60	600	0.15	38	450	ISOTOP			ST
STE38NB50	500	0.13	38		ISOTOP			ST
STE40N55	550	0.12	40	450	ISOTOP			ST
STE40NA60	600	0.12	40		ISOTOP			ST

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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STE45N50	500	0.11	45	450	ISOTOP			ST
STE47N50	500	0.1	47	450	ISOTOP			ST
STE50N40	400	0.075	50	450	ISOTOP			ST
STE53NA50	500	0.085	53		ISOTOP			ST
STH10NA50	500	0.8	9.6	150	TO-218	2SK2601	A	ST
STH10NA50FI	500	0.8	5.6	60	TO-218IS	2SK2600	A	ST
STH12N60	600	0.6	12	180	TO-218	2SK2699	A	ST
STH12N60FI	600	0.6	7	70	TO-218IS	2SK2699	B	ST
STH13NB60FI	600	0.55	7		ISOWATT218	2SK2953	A	ST
STH14N50	500	0.45	14.1	180	TO-218	2SK2698	A	ST
STH14N50FI	500	0.45	8.8	70	TO-218IS	2SK2698	B	ST
STH15N50	500	0.4	15	180	TO-218	2SK2698	A	ST
STH15N50FI	500	0.4	9.3	70	TO-218IS	2SK2916	A	ST
STH15NB50FI	500	0.36	9.3		ISOWATT218	2SK2916	A	ST
STH18NB40FI	400	0.3	10		ISOWATT218	2SK2837	A	ST
STH26N25	250	0.11	26	180	TO-218	2SK2967	A	ST
STH26N25FI	250	0.11	16	70	TO-218IS	2SK2995	A	ST
STH33N20	200	0.085	33	180	TO-218	2SK3176	A	ST
STH33N20FI	200	0.085	20	70	TO-218IS	2SK2995	A	ST
STH45N10	100	0.04	45	180	TO-218	2SK2466	B	ST
STH45N10FI	100	0.04	27	65	TO-218IS	2SK2466	B	ST
STH4N80	800	3	4.3	125	TO-218	2SK2603	B	ST
STH4N80FI	800	3	2.8	55	TO-218IS	2SK2603	B	ST
STH4N90	900	3.2	4.2	125	TO-218	2SK2610	A	ST
STH4N90FI	900	3.2	2.7	55	TO-218IS	2SK2719	B	ST
STH55N10	100	0.03	55	200	TO-218	2SK1381	A	ST
STH55N10FI	100	0.03	34	80	TO-218IS	2SK1381	A	ST
STH5N90	900	2.4	5.3	150	TO-218	2SK2610	A	ST
STH5N90FI	900	2.4	3.5	60	TO-218IS	2SK2610	B	ST
STH5NA100FI	1000	3.5	2.9		ISOWATT218	2SK1365	A	ST
STH60N10	100	0.025	60	200	TO-218			ST
STH60N10FI	100	0.025	38	80	TO-218IS			ST
STH65N05	50	0.02	65	180	TO-218	2SK2445	A	ST
STH65N05FI	50	0.02	38	65	TO-218IS	2SK2744	B	ST
STH65N06	60	0.02	65	180	TO-218	2SK2173	A	ST
STH65N06FI	60	0.02	38	65	TO-218IS	2SK2173	B	ST
STH6N100	1000	2	6	180	TO-218	2SK1120	A	ST
STH6N100FI	1000	2	3.7	70	TO-218IS	2SK1365	A	ST
STH6NA80	800	2.4	5.8	150	TO-218	2SK2604	A	ST
STH6NA80FI	800	2.4	3.7	60	TO-218IS	2SK2604	B	ST
STH75N06	60	0.014	75	200	TO-218	2SK2313	A	ST
STH75N06FI	60	0.014	50	80	TO-218IS	2SK2313	B	ST
STH7N90	900	1.4	7.5	180	TO-218	2SK2611	A	ST
STH7N90FI	900	1.4	4.5	70	TO-218IS	2SK2611	A	ST
STH7NA100FI	1000	1.7	4.3		ISOWATT218	2SK2613	B	ST
STH7NA60	600	1.2	7.2	150	TO-218	2SK2602	A	ST
STH7NA60FI	600	1.2	4.6	60	TO-218IS	2SK2602	B	ST
STH7NA80	800	1.9	6.5	150	TO-218	2SK2746	A	ST
STH7NA80FI	800	1.9	4		ISOWATT218	2SK2604	B	ST
STH80N05	50	0.012	80	200	TO-218	2SK2551	A	ST

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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STH80N05FI	50	0.012	52	70	TO-218IS	2SK2551	B	ST
STH8N80	800	1.2	8.2	180	TO-218	2SK2607	A	ST
STH8N80FI	800	1.2	5.1	70	TO-218IS	2SK2606	A	ST
STH8NA60	600	1	8	150	TO-218	2SK2602	A	ST
STH8NA60FI	600	1	4.3	45	TO-218IS	2SK2602	B	ST
STH8NA80FI	800	1.5	4.5		ISOWATT218	2SK2746	B	ST
STH9N80	800	1	9	180	TO-218	2SK2607	A	ST
STH9N80FI	800	1	5.6	70	TO-218IS	2SK2606	A	ST
STHV102	1000	3.5	4.2	150	TO-218	2SK1359	A	ST
STHV102FI	1000	3.5	2.6	60	TO-218IS	2SK1359	B	ST
STHV82	800	2	5.5	150	TO-218	2SK2604	A	ST
STHV82FI	800	2	3.6	60	TO-218IS	2SK2604	B	ST
STK12N05L	50	0.15	12	50	SOT-82			ST
STK12N06L	60	0.15	12	50	SOT-82			ST
STK14N05	50	0.12	14	50	SOT-82			ST
STK14N06	60	0.12	14	50	SOT-82			ST
STK14N10	100	0.14	14	65	SOT-82			ST
STK16N10L	100	0.12	16	65	SOT-82			ST
STK17N10	100	0.11	17	65	SOT-82			ST
STK18N05	50	0.085	18	60	SOT-82	2SK2614	B	ST
STK18N05L	50	0.085	18	60	SOT-82	2SK2614	B	ST
STK18N06	60	0.085	18	60	SOT-82			ST
STK18N06L	60	0.085	18	60	SOT-82			ST
STK22N05	50	0.065	22	65	SOT-82			ST
STK22N06	60	0.065	22	65	SOT-82			ST
STK23N05L	50	0.055	23	65	SOT-82			ST
STK23N06L	60	0.05	23	65	SOT-82			ST
STK2N50	500	6	2	50	SOT-82			ST
STK2N60	600	8	1.7	50	SOT-82			ST
STK2N80	800	7	2.1	70	SOT-82			ST
STK3055E	60	0.15	12	50	SOT-82			ST
STK3N50	500	3.8	2.7	60	SOT-82			ST
STK4N25	250	1.1	4	50	SOT-82			ST
STK4N30	300	1.4	4.2	50	SOT-82			ST
STK4N30L	300	1.4	4.2	50	SOT-82			ST
STK4N40	400	2.2	3.7	60	SOT-82			ST
STK6N20	200	0.7	6	60	SOT-82			ST
STK9N10	100	0.3	9	50	SOT-82			ST
STN1N20	200	1.5	1		SOT-223			ST
STN1NB80	800	20	0.2		SOT-223			ST
STN2N10	100	0.27	2		SOT-223	2SK2742	A	ST
STN2NE10L	100	0.45	2		SOT-223	2SK2742	A	ST
STN3NE06	60	0.12	3		SOT-223	2SK2741	A	ST
STN3NE06L	60	0.12	3		SOT-223	2SK2741	A	ST
STN4NE03	30	0.06	4		SOT-223	2SK2839	A	ST
STN4NE03L	30	0.05	4		SOT-223	2SK2839	A	ST
STP10NA40	400	0.55	10	125	TO-220AB	2SK2841	A	ST
STP10NA40FI	400	0.55	6	45	TO-220IS	2SK2952	A	ST
STP10NB20	200	0.4	10		TO-220			ST
STP10NB20FP	200	0.4	6		TO-220FP	2SK2350	A	ST

**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STP11NB40	400	0.55	10.7		TO-220AB	2SK2841	A	ST
STP11NB40FP	400	0.55	6		TO-220FP	2SK2952	A	ST
STP12NB30	300	0.4	12		TO-220			ST
STP12NB30FP	300	0.4	6.5		TO-220FP			ST
STP15N05L	50	0.15	15	70	TO-220AB	2SK2507	B	ST
STP15N05LFI	50	0.15	10	35	TO-220IS	2SK2507	A	ST
STP15N06L	60	0.15	15	70	TO-220AB	2SK2231	B	ST
STP15N06LFI	60	0.15	10	35	TO-220IS	2SK2231	B	ST
STP16N10L	100	0.16	16		TO-220AB	2SK2314	A	ST
STP16NB25	250	0.25	16		TO-220AB	2SK2508	B	ST
STP16NE06	60	0.12	16		TO-220AB	2SK2232	B	ST
STP16NE06FP	60	0.12	10		TO-220FP	2SK2232	B	ST
STP16NE06L	60	0.12	16		TO-220AB	2SK2232	B	ST
STP16NE06LFP	60	0.12	10		TO-220FP	2SK2232	B	ST
STP18N10	100	0.14	18	90	TO-220AB	2SK2314	A	ST
STP18N10FI	100	0.14	11	40	TO-220IS	2SK2391	A	ST
STP19NB20	200	0.18	19		TO-220AB	YTA640	A	ST
STP19NB20FP	200	0.18	10		TO-220FP	2SK2382	A	ST
STP20N06	60	0.085	20	80	TO-220AB	2SK2232	B	ST
STP20N06FI	60	0.085	13	35	TO-220IS	2SK2232	A	ST
STP20N10	100	0.12	20	105	TO-220AB	2SK2314	A	ST
STP20N10FI	100	0.12	12	40	TO-220IS	2SK2391	A	ST
STP20N10L	100	0.12	20	105	TO-220AB	2SK2314	A	ST
STP20N10LFI	100	0.12	12	40	TO-220IS	2SK2391	A	ST
STP20NE06	60	0.085	20		TO-220AB	2SK2232	B	ST
STP20NE06FP	60	0.085	13		TO-220FP	2SK2232	A	ST
STP20NE06L	60	0.085	20		TO-220AB	2SK2232	B	ST
STP20NE06LFP	60	0.085	13		TO-220FP	2SK2232	A	ST
STP20NE10	100	0.1	20		TO-220AB	2SK2314	A	ST
STP21N05L	50	0.085	21	80	TO-220AB	2SK2507	B	ST
STP21N05LFI	50	0.085	14	35	TO-220IS	2SK2507	A	ST
STP21N06L	60	0.085	21	80	TO-220AB	2SK2232	B	ST
STP21N06LFI	60	0.085	14	35	TO-220IS	2SK2232	A	ST
STP22NE03L	30	0.05	22		TO-220AB	2SK2844	A	ST
STP25N05	50	0.065	25	90	TO-220AB	2SK2507	B	ST
STP25N05FI	50	0.065	16	40	TO-220IS	2SK2507	A	ST
STP25N06	60	0.065	25	90	TO-220AB	2SK2232	B	ST
STP25N06FI	60	0.065	16	40	TO-220IS	2SK2232	A	ST
STP2N60	600	3.5	2.9	70	TO-220AB	2SK3085	A	ST
STP2N60FI	600	3.5	2.2	35	TO-220IS	2SK3067	A	ST
STP2N80	800	7	2.4	90	TO-220AB	2SK2997	B	ST
STP2N80FI	800	7	1.5	35	TO-220IS	2SK2997	B	ST
STP2NA50	500	4	2.8		TO-220AB	2SK2862	B	ST
STP30N05	50	0.05	30	105	TO-220AB	2SK2507	B	ST
STP30N05FI	50	0.05	19	40	TO-220IS	2SK2507	A	ST
STP30N06	60	0.05	30	105	TO-220AB	2SK2232	B	ST
STP30N06FI	60	0.05	19	40	TO-220IS	2SK2232	A	ST
STP30N10	100	0.06	33		TO-220AB	2SK2466	B	ST
STP30NE06	60	0.05	30		TO-220AB	2SK2232	B	ST
STP30NE06FP	60	0.05	17		TO-220FP	2SK2232	A	ST

**Power MOSFETs Cross Reference**

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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STP30NE06L	60	0.055	30		TO-220AB	2SK2232	B	ST
STP30NE06LFP	60	0.055	17		TO-220FP	2SK2232	A	ST
STP32N05L	50	0.055	32	105	TO-220AB	2SK2507	B	ST
STP32N05LFI	50	0.055	19	40	TO-220IS	2SK2507	A	ST
STP32N06L	60	0.05	32	105	TO-220AB	2SK2232	B	ST
STP32N06LFI	60	0.05	19	40	TO-220IS	2SK2232	A	ST
STP33N10	100	0.06	33	150	TO-220AB	2SK2466	B	ST
STP33N10FI	100	0.06	18	45	TO-220IS	2SK2466	A	ST
STP36N05L	50	0.04	36	120	TO-220AB	2SK2720	B	ST
STP36N05LFI	50	0.04	21	40	TO-220IS	2SK2385	A	ST
STP36N06	60	0.04	36	120	TO-220AB	2SK2385	B	ST
STP36N06FI	60	0.04	21	40	TO-220IS	2SK2385	A	ST
STP36N06L	60	0.04	36	120	TO-220AB	2SK2385	B	ST
STP36N06LFI	60	0.04	21	40	TO-220IS	2SK2385	A	ST
STP36NE06	60	0.04	36		TO-220AB	2SK2385	B	ST
STP36NE06FP	60	0.04	20		TO-220FP	2SK2385	A	ST
STP3N100	1000	5	3.5	100	TO-220AB	2SK1119	A	ST
STP3N100FI	1000	5	2	40	TO-220IS	2SK1119	B	ST
STP3N100XI	1000	6	1.6	30	ISOWATT221			ST
STP3N50XI	500	4	1.7	25	ISOWATT221	2SK2599	B	ST
STP3N60FI	600	2.2	2.7	35	TO-220IS	2SK2750	A	ST
STP3N60XI	600	2.5	2.4	28	ISOWATT221			ST
STP3N80XI	800	4.5	1.7	28	ISOWATT221			ST
STP3N90	900	4.5	3.2	100	TO-220AB	2SK2608	A	ST
STP3N90FI	900	4.5	1.9	40	TO-220IS	2SK2700	A	ST
STP3NA100	1000	5	3.5		TO-220AB	2SK1119	A	ST
STP3NA100FP	1000	5	2		TO-220FP	2SK1119	B	ST
STP3NA80	800	4.5	3	100	TO-220AB	2SK2603	A	ST
STP3NA80FI	800	4.5	2	40	TO-220IS	2SK2603	B	ST
STP3NA90	900	5.3	3		TO-220AB	2SK2608	A	ST
STP3NA90FI	900	5.3	1.9		TO-220FP	2SK2700	A	ST
STP3NB100	1000	5.5	3		TO-220AB	2SK1119	A	ST
STP3NB100FP	1000	5.5	1.8		TO-220FP	2SK1119	B	ST
STP3NB60	600	3.6	3.3		TO-220AB	2SK3085	A	ST
STP3NB60FP	600	3.6	2.1		TO-220FP	2SK3067	A	ST
STP3NB80	800	6.5	2.6		TO-220	2SK2603	A	ST
STP3NB80FP	800	6.5	1.6		TO-220FP	2SK2603	B	ST
STP3NB90	900	4.4	3.4		TO-220AB	2SK2608	A	ST
STP3NB90FP	900	4.4	2		TO-220FP	2SK2700	A	ST
STP40N05	50	0.035	40	125	TO-220AB	2SK2385	B	ST
STP40N05FI	50	0.035	23	40	TO-220IS	2SK2886	A	ST
STP40N10	100	0.04	40	150	TO-220AB	2SK2466	B	ST
STP40N10FI	100	0.04	22	45	TO-220IS	2SK2466	A	ST
STP40NE03L-20	30	0.02	40		TO-220AB	2SK2844	A	ST
STP45NE06	60	0.028	45		TO-220AB	2SK2385	B	ST
STP45NE06FP	60	0.028	25		TO-220FP	2SK2385	A	ST
STP45NE06L	60	0.028	45		TO-220AB	2SK2385	B	ST
STP45NE06LFP	60	0.028	25		TO-220FP	2SK2385	A	ST
STP4N100	1000	3.5	4	125	TO-220AB	2SK1119	A	ST
STP4N100FI	1000	3.5	2.2	40	TO-220IS	2SK1119	B	ST

**Power MOSFETs Cross Reference**
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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STP4N100XI	1000	4	2	35	ISOWATT221			ST
STP4N40	400	2.1	4	75	TO-220AB	2SK2679	B	ST
STP4N40FI	400	2.1	3	35	TO-220IS	2SK2662	A	ST
STP4N80XI	800	3.5	2	30	ISOWATT221			ST
STP4N90	900	3.5	3.6	100	TO-220AB	2SK2717	B	ST
STP4N90FI	900	3.5	2.3	40	TO-220IS	2SK2700	A	ST
STP4NA60	600	2.2	4.3	100	TO-220AB	2SK3085	A	ST
STP4NA60FI	600	2.2	2.7	40	TO-220IS	2SK2750	A	ST
STP4NA80	800	3.5	3.8	100	TO-220AB	2SK2603	A	ST
STP4NA80FI	800	3.5	2.4	40	TO-220IS	2SK2603	B	ST
STP4NA90	900	4	3.6		TO-220AB	2SK2608	A	ST
STP4NA90FI	900	4	2.4		TO-220FP	2SK2700	A	ST
STP4NB100	1000	4.4	3.8		TO-220AB	2SK1119	A	ST
STP4NB30	300	2	4.3		TO-220			ST
STP4NB30FP	300	2	2.7		TO-220FP			ST
STP4NB50	500	2.8	3.8		TO-220AB	2SK2862	B	ST
STP4NB50FP	500	2.8	2.3		TO-220FP	2SK2862	A	ST
STP4NB80	800	3.3	4		TO-220AB	2SK2603	A	ST
STP4NB80FP	800	3.3	2.3		TO-220FP	2SK2603	B	ST
STP4NB90	900	2.9	4		TO-220AB	2SK2717	B	ST
STP4NB90FP	900	2.9	2.5		TO-220FP	2SK2717	A	ST
STP50N05L	50	0.028	50	200	TO-220AB	2SK2886	B	ST
STP50N05LFI	50	0.028	24	40	TO-220IS	2SK2886	A	ST
STP50N06	60	0.028	50	150	TO-220AB	2SK2385	B	ST
STP50N06FI	60	0.028	27	45	TO-220IS	2SK2385	A	ST
STP50N06L	60	0.028	50	200	TO-220AB	2SK2385	B	ST
STP50N06LFI	60	0.028	24	40	TO-220IS	2SK2385	A	ST
STP50NE08	80	0.024	50		TO-220			ST
STP50NE10	100	0.028	50		TO-220			ST
STP50NE10L	100	0.025	50		TO-220			ST
STP53N05	50	0.025	53	150	TO-220AB	2SK2886	B	ST
STP53N06	60	0.025	53	150	TO-220AB	2SK2312	B	ST
STP55N05L	50	0.023	55	150	TO-220AB	2SK2886	B	ST
STP55N05LFI	50	0.023	30	45	TO-220IS	2SK2886	A	ST
STP55N06L	60	0.023	55	150	TO-220AB	2SK2312	B	ST
STP55N06LFI	60	0.023	30	45	TO-220IS	2SK2312	A	ST
STP55NE06	60	0.022	55		TO-220AB	2SK2312	B	ST
STP55NE06FP	60	0.022	30		TO-220FP	2SK2312	A	ST
STP55NE06L	60	0.022	50		TO-220AB	2SK2312	B	ST
STP5N25L	250	1.1	5	70	TO-220AB	2SK2840	B	ST
STP5N25LFI	250	1.1	3.5	35	TO-220IS	2SK2840	A	ST
STP5N30	300	1.4	5	75	TO-220AB			ST
STP5N30FI	300	1.4	3	35	TO-220IS			ST
STP5N30L	300	1.4	5	75	TO-220AB			ST
STP5N30LFI	300	1.4	3.5	35	TO-220IS			ST
STP5N50	500	1.6	4.5	100	TO-220AB	2SK2661	A	ST
STP5N50FI	500	1.6	3	35	TO-220IS	2SK2662	A	ST
STP5N60	600	1.6	5.6	100	TO-220AB	2SK2544	A	ST
STP5N60FI	600	1.6	3.4	40	TO-220IS	2SK2545	A	ST
STP5N80	800	2	5.5	125	TO-220AB	2SK2605	B	ST

**Power MOSFETs Cross Reference**
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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STP5N80FI	800	2	3.1	40	TO-220IS	2SK2605	A	ST
STP5N80XI	800	2.4	2.6	35	ISOWATT221			ST
STP5N90	900	2.4	5	125	TO-220AB	2SK2717	B	ST
STP5N90FI	900	2.4	2.8	40	TO-220IS			ST
STP5NA50	500	1.6	5	100	TO-220AB	2SK2661	A	ST
STP5NA50FI	500	1.6	3.1	35	TO-220IS	2SK2662	A	ST
STP5NA60	600	1.6	5.3	110	TO-220AB	2SK2544	A	ST
STP5NA60FI	600	1.6	3.4	45	TO-220IS	2SK2545	A	ST
STP5NA80	800	2.2	4.7		TO-220	2SK2605	B	ST
STP5NA80FI	800	2.2	2.8		TO-220FP	2SK2605	A	ST
STP5NB40	400	1.8	4.7		TO-220AB	2SK2679	B	ST
STP5NB40FP	400	1.8	2.8		TO-220FP	2SK2679	A	ST
STP5NB60	600	2	5.3		TO-220AB	2SK3085	A	ST
STP5NB60FP	600	2	3		TO-220FP	2SK2750	A	ST
STP5NB80	800	2.2	5		TO-220	2SK2605	B	ST
STP5NB80FP	800	2.2	3		TO-220FP	2SK2605	A	ST
STP5NB90	900	2.5	5		TO-220AB	2SK2717	B	ST
STP60N05	50	0.02	60	150	TO-220AB	2SK2886	B	ST
STP60N05-16	50	0.016	60	150	TO-220AB	2SK2312	B	ST
STP60N05FI	50	0.02	32	45	TO-220IS	2SK2886	A	ST
STP60N06	60	0.02	60	150	TO-220AB	2SK2312	B	ST
STP60N06-16	60	0.016	60	150	TO-220AB	2SK2312	B	ST
STP60N06FI	60	0.02	32	45	TO-220IS	2SK2312	A	ST
STP60NE03L-10	30	0.01	60		TO-220AB	2SK3127	B	ST
STP60NE06-16	60	0.016	60		TO-220AB	2SK2312	B	ST
STP60NE06L-16	60	0.016	60		TO-220AB	2SK2312	B	ST
STP60NE08	80	0.016	60		TO-220			ST
STP60NS04Z	40	0.015	60		TO-220AB			ST
STP6N25	250	1.1	6	75	TO-220AB	2SK2840	B	ST
STP6N25FI	250	1	4	35	TO-220IS	2SK2840	A	ST
STP6N50	500	1.1	6	100	TO-220AB	2SK2542	A	ST
STP6N50FI	500	1.1	3.8	40	TO-220IS	2SK2543	A	ST
STP6N60FI	600	1.2	3.8	40	TO-220IS	2SK2545	A	ST
STP6NA50	500	1.1	6	110	TO-220AB	2SK2542	A	ST
STP6NA50FI	500	1.1	4	45	TO-220IS	2SK2543	A	ST
STP6NA60	600	1.2	6.5	125	TO-220AB	2SK2544	A	ST
STP6NA60FI	600	1.2	3.9	45	TO-220IS	2SK2545	A	ST
STP6NA80FI	800	1.9	3.4	45	TO-220IS			ST
STP6NB25	250	1.1	6		TO-220AB	2SK2840	B	ST
STP6NB25FP	250	1.1	3.7		TO-220FP	2SK2840	A	ST
STP6NB50	500	1.5	5.8		TO-220AB	2SK2661	A	ST
STP6NB50FP	500	1.5	3.4		TO-220FP	2SK2662	A	ST
STP6NB80	800	1.9	5.7		TO-220AB			ST
STP6NB90	900	1.9	6		TO-220			ST
STP6NS80	800	1.9	5.7	125	TO-220AB			ST
STP7N20	200	0.65	7	75	TO-220AB	YTA630	A	ST
STP7N20FI	200	0.65	4.5	30	TO-220IS	2SK2350	A	ST
STP7NA40	400	1	6.5	100	TO-220AB	2SK2679	B	ST
STP7NA40FI	400	1	4.1	40	TO-220IS	2SK2679	A	ST
STP7NA60	600	1	7.2	125	TO-220AB	2SK2544	A	ST

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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STP7NA60FI	600	1	4.3	45	TO-220IS	2SK2545	A	ST
STP7NB30	300	0.9	7		TO-220			ST
STP7NB30FP	300	0.9	4		TO-220FP			ST
STP7NB40	400	0.9	7		TO-220AB	2SK2841	A	ST
STP7NB40FP	400	0.9	4.4		TO-220FP	2SK2952	A	ST
STP7NB60	600	1.2	7.2		TO-220AB	2SK2544	A	ST
STP7NB60FP	600	1.2	4.1		TO-220FP	2SK2545	A	ST
STP7NB80	800	1.6	6.5		TO-220			ST
STP80NE03L-06	30	0.006	80		TO-220AB			ST
STP80NE06-10	60	0.01	80		TO-220AB	2SK2985	B	ST
STP80NS04Z	40	0.008	80		TO-220AB			ST
STP8N50XI	500	0.85	4.5	35	ISOWATT221			ST
STP8NA50	500	0.85	8	125	TO-220AB	2SK2542	A	ST
STP8NA50FI	500	0.85	4.5	40	TO-220IS	2SK2543	A	ST
STP9N30	300	0.55	9	100	TO-220AB			ST
STP9NA50	500	0.8	8.8	125	TO-220AB	2SK2542	A	ST
STP9NA50FI	500	0.8	5	45	TO-220IS	2SK2543	A	ST
STP9NB50	500	0.85	8.6		TO-220AB	2SK2542	A	ST
STP9NB50FP	500	0.85	4.5		TO-220FP	2SK2543	A	ST
STP9NB60	600	0.75	9		TO-220	2SK2866	A	ST
STP9NB60FP	600	0.75	5.2		TO-220FP	2SK2843	A	ST
STU10NB80	800	0.85	9.7		MAX220			ST
STU11NB60	600	0.65	10.7		MAX220	2SK2843	B	ST
STU13NB50	500	0.45	13		MAX220	2SK2842	B	ST
STU13NB60	600	0.45	12.6		MAX220			ST
STU13NB60I	600	0.45	8		MAX220			ST
STU16NB50	500	0.33	15.6		MAX220			ST
STU16NB50I	500	0.33	10		MAX220			ST
STU6NA100	1000	1.7	6		MAX220			ST
STU6NA90	900	2	5.8		MAX220			ST
STU7NA80	800	1.5	6.5		MAX220			ST
STU7NA90	900	1.3	7.3		MAX220			ST
STU7NB90	900	1.45	7.4		MAX220			ST
STU8NA80	800	1	8.3		MAX220			ST
STU8NB90	900	1			MAX220			ST
STU9NB80	800	1.1	8.5		MAX220			ST
STV10NA40	400	0.55	10	125	SO-10			ST
STV12N20	200	0.3	12	100	SO-10			ST
STV18N20	200	0.18	18	125	SO-10			ST
STV33N10	100	0.06	33	150	SO-10			ST
STV36N06	60	0.04	36	120	SO-10			ST
STV3NA80	800	4.5	3.2	100	SO-10			ST
STV40N05	50	0.035	40	125	SO-10			ST
STV40N10	100	0.04	40	150	SO-10			ST
STV4N100	1000	3.5	4	125	SO-10			ST
STV4NA60	600	2.2	4.4	100	SO-10			ST
STV4NA80	800	3	3.8	110	SO-10			ST
STV50N05	50	0.028	50	150	SO-10			ST
STV50N06	60	0.028	50	150	SO-10			ST
STV55N05L	50	0.023	55	150	SO-10			ST



**Power MOSFETs Cross Reference**

**Alphanumerically**

Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STV55N06L	60	0.023	5.5	150	SO-10			ST
STV5NA50	500	1.6	4.5	100	SO-10			ST
STV5NA80	800	2.4	4.7	125	SO-10			ST
STV60N03L-12	30	0.012	60	150	SO-10			ST
STV60N05	50	0.02	60	150	SO-10			ST
STV60N05-16	50	0.016	60	150	SO-10			ST
STV60N06	60	0.02	60	150	SO-10			ST
STV6NA60	600	1.2	6.5	110	SO-10			ST
STV7NA40	400	1	6.5	100	SO-10			ST
STV7NA60	600	1	6.5	125	SO-10			ST
STV8NA50	500	0.85	8	125	SO-10			ST
STW10NB60	600	0.55	10		TO-247	2SK2915	A	ST
STW11NB80	800	0.85	10.6		TO-247			ST
STW12N60	600	0.6	12	180	TO-247	2SK2699	A	ST
STW12NB60	600	0.65	12		TO-247	2SK2699	A	ST
STW13NB60	600	0.55	12.5		TO-247	2SK2915	A	ST
STW14N50	500	0.45	14.1	180	TO-247	2SK2698	A	ST
STW14NB50	500	0.45	14		TO-247	2SK2698	A	ST
STW15N50	500	0.4	15	180	TO-247	2SK2698	A	ST
STW15NB50	500	0.36	14.6		TO-247	2SK2698	A	ST
STW16N40	400	0.3	16	180	TO-247	2SK2837	A	ST
STW16NA60	600	0.4	16		TO-247	2SK2915	A	ST
STW18NB40	400	0.3	18		TO-247	2SK2837	A	ST
STW20NA50	500	0.27	20	250	TO-247	2SK2837	A	ST
STW20NB50	500	0.27	20		TO-247	2SK2837	A	ST
STW33N20	200	0.085	33	180	TO-247	2SK3176	A	ST
STW34NB20	200	0.075	34		TO-247	2SK3176	A	ST
STW50NB20	200	0.05	50		TO-247	2SK3176	A	ST
STW55N10	100	0.03	55	200	TO-247	2SK1381	A	ST
STW5NB100	1000	4.4	4.3		TO-247	2SK1359	A	ST
STW5NB90	900	2.5	5		TO-247	2SK2610	A	ST
STW60N10	100	0.025	60	200	TO-247			ST
STW6NA80	800	2.2	5.4		TO-247	2SK2604	A	ST
STW6NA90	900	2	6		TO-247	2SK2749	A	ST
STW6NB90	900	1.9	6.5		TO-247	2SK2749	A	ST
STW75N06	60	0.014	75	200	TO-247	2SK2313	A	ST
STW7NA100	1000	1.7	7		TO-247	2SK2613	A	ST
STW7NA80	800	1.9	6.5		TO-247	2SK2746	A	ST
STW7NA90	900	1.3	7.7		TO-247	2SK2611	A	ST
STW7NB80	800	1.9	6.5		TO-247	2SK2746	A	ST
STW80N05	50	0.012	80	200	TO-247	2SK2551	A	ST
STW80NE06-10	60	0.01	80		TO-247	2SK2313	A	ST
STW8N80	800	1.2	8.2	180	TO-247	2SK2607	A	ST
STW8NA80	800	1.5	7.2		TO-247	2SK2746	A	ST
STW8NB80	800	1.6	7.2		TO-247	2SK2746	A	ST
STW8NB90	900	1.45	8		TO-247	2SK2611	A	ST
STW9NA80	800	1	9.1		TO-247	2SK2607	A	ST
STW9NB80	800	1.1	9.3		TO-247	2SK2607	A	ST
STW9NB90	900	1	9.7		TO-247	2SK2968	A	ST
STY15NA100	1000	0.77	15		MAX247			ST

**Power MOSFETs Cross Reference**
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Part Number	V <sub>DSS</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
STY16NA90	900	0.54	16		MAX247			ST
STY25NA60	600	0.24	25		MAX247			ST
STY34NB50	500	0.13	34		MAX247			ST
STY60NA20	200	0.032	60		MAX247			ST
SUB40N06-25L	60	0.022	40	90	D2-PAK	2SK2376	A	Siliconix
SUB60N06-18	60	0.018	60	120	D2-PAK	2SK2376	A	Siliconix
SUB65P06-20	-60	0.02	65	187	D2-PAK			Siliconix
SUB70N06-14	60	0.014	70	100	D2-PAK	2SK2376	A	Siliconix
SUB75N05-06	50	0.006	75	187	D2-PAK	2SK2986	A	Siliconix
SUB75N06-08	60	0.008	75	187	D2-PAK	2SK2986	A	Siliconix
SUD25N06-45L	60	0.045	25	50	D-PAK			Siliconix
SUD30N03-30	30	0.045	30	50	D-PAK			Siliconix
SUD40N06-25L	60	0.022	34	75	D-PAK			Siliconix
SUD45N05-20L	50	0.018	43	83	D-PAK			Siliconix
SUD45P03-15	-30	0.015	45	50	D-PAK			Siliconix
SUD50N03-10	30	0.01	15	83	D-PAK			Siliconix
SUP40N06-25L	60	0.025	40	90	TO-220AB	2SK2312	B	Siliconix
SUP60N06-18	60	0.018	60	120	TO-220AB	2SK2312	B	Siliconix
SUP65P06-20	-60	0.02	65	187	TO-220AB			Siliconix
SUP70N06-14	60	0.014	70	142	TO-220AB	2SK2312	B	Siliconix
SUP75N05-06	50	0.006	75	187	TO-220AB	2SK2985	B	Siliconix
SUP75N06-08	60	0.008	75	187	TO-220AB	2SK2985	B	Siliconix
TPC8001	30	0.02	8		SOP-8(Single)	TPC8001	A	Toshiba
TPC8001	30	0.02	8		SOP-8(Single)	TPC8001	A	Toshiba
TPC8002	30	0.014	11		SOP-8(Single)	TPC8002	A	Toshiba
TPC8003	30	0.007	13		SOP-8(Single)	TPC8003	A	Toshiba
TPC8004	30	0.05	5		SOP-8(Single)	TPC8004	A	Toshiba
TPC8005-H	30	0.016	11		SOP-8(Single)	TPC8005-H	A	Toshiba
TPC8006-H	30	0.027	7		SOP-8(Single)	TPC8006-H	A	Toshiba
TPC8007-H	30	0.01	13		SOP-8(Single)	TPC8007-H	A	Toshiba
TPC8008	20	0.02	6		SOP-8(Single)	TPC8008	A	Toshiba
TPC8102	-30	0.04	-6		SOP-8(Single)	TPC8102	A	Toshiba
TPC8103	-30	0.013	-11		SOP-8(Single)	TPC8103	A	Toshiba
TPC8104-H	-30	0.07	-5		SOP-8(Single)	TPC8104-H	A	Toshiba
TPC8105-H	-30	0.04	-7		SOP-8(Single)	TPC8105-H	A	Toshiba
TPC8106-H	-30	0.02	-8		SOP-8(Single)	TPC8106-H	A	Toshiba
TPC8201	30	0.05	5		SOP-8(Dual)	TPC8201	A	Toshiba
TPC8202	20	0.05	5		SOP-8(Dual)	TPC8202	A	Toshiba
TPC8203	30	0.021	6		SOP-8(Dual)	TPC8203	A	Toshiba
TPC8204	20	0.02	6		SOP-8(Dual)	TPC8204	A	Toshiba
TPC8205	50	0.15	5		SOP-8(Dual)	TPC8205	A	Toshiba
TPC8301	-30	0.1	-3.5		SOP-8(Dual)	TPC8301	A	Toshiba
TPC8302	-20	0.12	-3.5		SOP-8(Dual)	TPC8302	A	Toshiba
TPC8303	-30	0.035	-4.5		SOP-8(Dual)	TPC8303	A	Toshiba
TPC8304	-50	0.19	-5		SOP-8(Dual)	TPC8304	A	Toshiba
TPC8401	30/-30	0.021/0.039	4.5/-4.5		SOP-8(P&N)	TPC8401	A	Toshiba
TPCS8001-H	30	0.027	5		TSSOP-8(Single)	TPCS8001-H	A	Toshiba
TPCS8002	20	0.02	6		TSSOP-8(Single)	TPCS8002	A	Toshiba
TPCS8003	30	0.013	8		TSSOP-8(Single)	TPCS8003	A	Toshiba
TPCS8101	-30	0.025	-6		TSSOP-8(Single)	TPCS8101	A	Toshiba

**Power MOSFETs Cross Reference**
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Part Number	V <sub>bss</sub> (V)	R <sub>DS(ON)</sub> (ohm)	I <sub>D</sub> (A)	P <sub>D</sub> (W)	Package	Toshiba Replacement	Note	Vender
TPCS8201	20	0.03	5		TSSOP-8(Dual)	TPCS8201	A	Toshiba
TPCS8202	30	0.03	4		TSSOP-8(Dual)	TPCS8202	A	Toshiba
TPCS8301	-30	0.071	-3		TSSOP-8(Dual)	TPCS8301	A	Toshiba
TPCT8203	30	0.021	6		TSOP-8(Dual)	TPCT8203	A	Toshiba
uPA1700	30	0.027	7		SOP-8(Single)	TPC8001	A	NEC
uPA1700A*	30	0.027	7		SOP-8(Single)	TPC8006-H	A	NEC
uPA1701	20	0.027	7		SOP-8(Single)	TPC8001	A	NEC
uPA1701A*	30	0.027	7		SOP-8(Single)	TPC8006-H	A	NEC
uPA1702	30	0.015	8		SOP-8(Single)	TPC8002	A	NEC
uPA1702A	30	0.015	8		SOP-8(Single)	TPC8005-H	A	NEC
uPA1703	30	0.0105	10		SOP-8(Single)	TPC8007-H	A	NEC
uPA1704*	30	0.014	10		SOP-8(Single)	TPC8005-H	A	NEC
uPA1705*	30	0.05	7		SOP-8(Single)	TPC8004	A	NEC
uPA1710	-30	0.07	5		SOP-8(Single)	TPC8102	A	NEC
uPA1710A	-30	0.07	5		SOP-8(Single)	TPC8102	A	NEC
uPA1711	-30	0.04	7		SOP-8(Single)	TPC8102	A	NEC
uPA1712	-30	0.02	-8		SOP-8(Single)	TPC8106-H	A	NEC
uPA1713*	-30	0.07	-5		SOP-8(Single)	TPC8104-H	A	NEC
uPA1714*	-30	0.04	-7		SOP-8(Single)	TPC8105-H	A	NEC
uPA1750	-20	0.09	3.5		SOP-8(Dual)	TPC8302	A	NEC
uPA1751	30	0.037	5		SOP-8(Dual)	TPC8203	A	NEC
uPA1752	20	0.046	5		SOP-8(Dual)	TPC8202	A	NEC
uPA1752A	20	0.046	5		SOP-8(Dual)	TPC8202	A	NEC
uPA1753	20	0.035	8		SOP-8(Dual)	TPC8203	A	NEC
uPA1754*	30	0.032	7		SOP-8(Dual)	TPC8203	A	NEC
uPA1755*	30	0.032	7		SOP-8(Dual)	TPC8203	A	NEC
uPA1756*	20	0.03	6		SOP-8(Dual)	TPC8204	A	NEC
uPA1757*	20	0.023	7		SOP-8(Dual)	TPC8204	A	NEC
uPA1758*	30	0.03	6		SOP-8(Dual)	TPC8203	A	NEC
uPA1800	30		5		TSSOP-8(Single)			NEC
uPA1801	20		6		TSSOP-8(Single)	TPCS8002	A	NEC
uPA1802*	20		7		TSSOP-8(Single)	TPCS8002	A	NEC
uPA1810	-12		-4		TSSOP-8(Single)			NEC
uPA1811	-20		-4		TSSOP-8(Single)			NEC
uPA1812	-30		-5		TSSOP-8(Single)			NEC
uPA1850	-12		-2.5		TSSOP-8(Dual)			NEC
uPA1851	-20		-2.5		TSSOP-8(Dual)			NEC
uPA1852	20		-		TSSOP-8(Dual)	TPCS8201	A	NEC
uPA1853	-30		-2.5		TSSOP-8(Dual)	TPCS8301	A	NEC
YTA630	200	0.4	10		TO-220AB	YTA630	A	Toshiba
YTA640	200	0.18	15		TO-220AB	YTA640	A	Toshiba
YTA830	500	1.5	5		TO-220AB	YTA830	A	Toshiba
YTA840	500	0.85	8		TO-220AB	YTA840	A	Toshiba
YTAF620	200	0.8	5		TO-220IS	YTAF620	A	Toshiba
YTAF630	200	0.4	10		TO-220IS	2SK2350	A	Toshiba
YTAF640	200	0.18	15		TO-220IS	YTAF640	A	Toshiba