

# 12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	TYPE No.	fab	MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. Pc IN FREE AIR @ 25°C (W)	BIAS			MAX. SAT. RES. (Ω)	Cob (F)	r'bb X Cob (s)	STRUCTURE P-PNP N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L E A D E
								Vcb (V)	le (A)	hFE								
1	1748-0820	30MΔ	600n		550n	350n	114 0	4.0 0	30 0	12 Δ #	50m #	800p 0	N-E	Si	200A	T063	A	
2	1748-1220	30MΔ	600n		550n	350n	114 0	4.0 0	30 0	12 Δ #	50m #	800p 0	N-E	Si	200A	T063	A	
3	1748-1620	30MΔ	600n		550n	350n	114 0	4.0 0	30 0	12 Δ #	50m #	800p 0	N-E	Si	200A	T063	A	
4	1748-1820	30MΔ	600n		550n	350n	114 0	4.0 0	30 0	12 Δ #	50m #	800p 0	N-E	Si	200A	T063	A	
5	2N5218	40.0MΔ	600n	600n 0	4.5u	1.0u	50 0	5.0 0	.50m	75 Δ #	30		N	Si	200A	T061	A 0	
6	U2TA506	40MΔ	600n		1.5u	800n	625m	5.0 0	750m 0	500 Δ	500m	50p 0	N	Si	150A	T092	KC	
7	U2TA508	40MΔ	600n		1.5u	800n	625m	5.0 0	750m 0	500 Δ	500m	50p 0	N	Si	150A	T092	KC	
8	U2TA510	40MΔ	600n		1.5u	800n	625m	5.0 0	750m 0	500 Δ	500m	50p 0	N	Si	150A	T092	KC	
9	2N6674	50MΔ	600n	100n	2.5u	500n	175 0	2.0 0	10	8.0 Δ	333m	500p 0	N	Si	200S	Y204a	C 0	
10	2N6675	50MΔ	600n	100n	2.5u	500n	175 0	2.0 0	10	8.0 Δ	333m	500p 0	N	Si	200S	Y204a	C 0	
11	2N6676	50MΔ	600n	100n	2.5u	500n	175 0	2.0 0	10	8.0 Δ	333m	500p 0	N	Si	200S	Y204a	C 0	
12	2N6677	50MΔ	600n	100n	2.5u	500n	175 0	2.0 0	10	8.0 Δ	333m	500p 0	N	Si	200S	Y204a	C 0	
13	2N6678	50MΔ	600n	100n	2.5u	500n	175 0	2.0 0	10	8.0 Δ	333m	500p 0	N	Si	200S	Y204a	C 0	
14	2N6689	50MΔ	600n	100n	2.5u	500n	175 0	2.0 0	10	20 0	150m	500p 0	N	Si	200J	T061	A	
15	2N6690	50MΔ	600n	100n	2.5u	500n	175 0	2.0 0	10	20 0	150m	500p 0	N	Si	200J	T061	A	
16	G5DB10008	50MΔ	600n	200n	400n		15 0	5.0 0	10 0	20 Δ #	120m #	150p 0	N-D	Si	200J	T05	A	
17 #	BUX34	60MΔ	600n 0			1.2u 0	10 0	2.0 0	2.0 0	60	200m	25p 0	N-PL	Si	175S	R2 16h	A 0	
18 #	BFX34	70MΔ	600n 0			1.2u 0	5.0 0	2.0 0	2.0 0	150 0 #	100p 0	100p 0	P-PE	Si	200J	T039	A 0	
19	SDM3100	70MΔ	600n 0			2.5u 0	20 0	5.0 0	5.0 0	1.0k Δ	600m	50p	N	Si	200J	F24a	CD 0	
20	SDM3101	70MΔ	600n 0			2.5u 0	20 0	5.0 0	5.0 0	1.0k Δ	600m	50p	N	Si	200J	F24a	CD 0	
21	SDM3102	70MΔ	600n 0			2.5u 0	20 0	5.0 0	5.0 0	1.0k Δ	600m	50p	N	Si	200J	F24a	CD 0	
22	SDM3103	70MΔ	600n 0			2.5u 0	20 0	5.0 0	2.5 0	1.0k Δ	800m	50p	N	Si	200J	F24a	CD 0	
23	SDM3104	70MΔ	600n 0			2.5u 0	20 0	5.0 0	2.5 0	1.0k Δ	800m	50p	N	Si	200J	F24a	CD 0	
24	SDM3105	70MΔ	600n 0			2.5u 0	20 0	5.0 0	2.5 0	1.0k Δ	800m	50p	N	Si	200J	F24a	CD 0	
25	SDM3200	70MΔ	600n 0			1.5u 0	20 0	5.0 0	5.0 0	1.0k Δ	600m	50p	P	Si	200J	F24a	CD 0	
26	SDM3201	70MΔ	600n 0			1.5u 0	20 0	5.0 0	5.0 0	1.0k Δ	600m	50p	P	Si	200J	F24a	CD 0	
27	SDM3202	70MΔ	600n 0			1.5u 0	20 0	5.0 0	5.0 0	1.0k Δ	600m	50p	P	Si	200J	F24a	CD 0	
28	SDM3203	70MΔ	600n 0			1.5u 0	20 0	5.0 0	2.5 0	1.0k Δ	800m	50p	P	Si	200J	F24a	CD 0	
29	SDM3204	70MΔ	600n 0			1.5u 0	20 0	5.0 0	2.5 0	1.0k Δ	800m	50p	P	Si	200J	F24a	CD 0	
30	SDM3205	70MΔ	600n 0			1.5u 0	20 0	5.0 0	2.5 0	1.0k Δ	800m	50p	P	Si	200J	F24a	CD 0	
31	SDM3300	70MΔ	600n 0			2.5u 0	5.0 0	5.0 0	5.0 0	1.0k Δ	600m	50p	N	Si	200J	T033	KM	
32	SDM3301	70MΔ	600n 0			2.5u 0	5.0 0	5.0 0	5.0 0	1.0k Δ	600m	50p	N	Si	200J	T033	KM	
33	SDM3302	70MΔ	600n 0			2.5u 0	5.0 0	5.0 0	5.0 0	1.0k Δ	600m	50p	N	Si	200J	T033	KM	
34	SDM3303	70MΔ	600n 0			2.5u 0	5.0 0	5.0 0	2.5 0	1.0k Δ	800m	50p	N	Si	200J	T033	KM	
35	SDM3304	70MΔ	600n 0			2.5u 0	5.0 0	5.0 0	2.5 0	1.0k Δ	800m	50p	N	Si	200J	T033	KM	
36	SDM3305	70MΔ	600n 0			2.5u 0	5.0 0	5.0 0	2.5 0	1.0k Δ	800m	50p	N	Si	200J	T033	KM	
37	SDM3400	70MΔ	600n 0			1.5u 0	5.0 0	5.0 0	5.0 0	1.0k Δ	600m	50p	P	Si	200J	T033	KM	
38	SDM3401	70MΔ	600n 0			1.5u 0	5.0 0	5.0 0	5.0 0	1.0k Δ	600m	50p	P	Si	200J	T033	KM	
39	SDM3402	70MΔ	600n 0			1.5u 0	5.0 0	5.0 0	5.0 0	1.0k Δ	600m	50p	P	Si	200J	T033	KM	
40	SDM3403	70MΔ	600n 0			1.5u 0	5.0 0	5.0 0	2.5 0	1.0k Δ	800m	50p	P	Si	200J	T033	KM	
41	SDM3404	70MΔ	600n 0			1.5u 0	5.0 0	5.0 0	2.5 0	1.0k Δ	800m	50p	P	Si	200J	T033	KM	
42	SDM3405	70MΔ	600n 0			1.5u 0	5.0 0	5.0 0	2.5 0	1.0k Δ	800m	50p	P	Si	200J	T033	KM	
43	JAN2N6211	100MΔ	600n 0			3.1u 0	35 0	2.8 0	1.0 0	10 # Δ	220p 0	20p 0	P	Si	200J	T068	C 0	
44	JAN2N6212	100MΔ	600n 0			3.1u 0	35 0	3.2 0	1.0 0	10 # Δ	220p 0	20p 0	P	Si	200J	T068	C 0	
45	JAN2N6213	100MΔ	600n 0			3.1u 0	35 0	4.0 0	1.0 0	10 # Δ	220p 0	20p 0	P	Si	200J	T068	C 0	
46 #	B5V64	100MΔ	600n 0			1.2u 0	5.0 0 #	2.0 0	2.0 0	40 Δ	200m	80p 0	N-PE	Si	175J	T039	A 0	
47	2N396A	5.0MΔ	650n	200n	800n	400n	200m	3.5 0	200m 0	15 Δ	4.0	20p 0	P	Ge	100S	T05	A 0	
48	40403	5.0MΔ	650n	200n	800n	400n	200m	1.0 0	10m 0	30 Δ	4.0	20p 0	P	Ge	85	T05	A 0	
49	2N3439	15MΔ	65u 0			.60u	10 0	10 0	20m 0	30 # Δ	10	10p 0	N	Si	200J	T05	A 0	
50	2N3440	15MΔ	.65u 0			.60u	10 0	10 0	20m 0	160 # Δ	10	10p 0	N	Si	200J	T05	A 0	
51	2N316A	70MΔ	700n 0			700n	800n	150m	250m 0	1.0m Δ	45 Δ	900m	P	Ge	100S	T05	A	
52	2N2636	70MΔ	700n			3.5u	4.0u	100 0	2.0 0	10 0	35 Δ	26m	P	Ge	110C	T041	C 0	
53	2N2637	70MΔ	700n			3.5u	4.0u	100 0	2.0 0	10 0	35 Δ	26m	P	Ge	110C	T041	C 0	
54	2N2638	70MΔ	700n			3.5u	4.0u	100 0	2.0 0	10 0	35 Δ	26m	P	Ge	110C	T041	C 0	
55 #	BUR24	70MΔ	700n	100n	3.0u	80u	250	5.0 0	1.0 0	90 0			NPE	Si	200J	T03	C	
56	D44TE3	70MΔ	700n	100n	3.5u	900n	2.0	5.0 0	1.0 0	90 0			N	Si	150J	Y220a	D	
57	D44TE5	70MΔ	700n	100n	3.5u	900n	2.0	5.0 0	1.0 0	90 0			N	Si	150J	Y220a	D	
58	MJ13332	70MΔ	700n	100n	4.0u	700n	175 0	5.0 0	5.0 0	10 Δ	250m	500p 0	N	Si	200J	T03	C 0	
59	MJ13333	70MΔ	700n	100n	4.0u	700n	175 0	5.0 0	5.0 0	10 Δ	250m	500p 0	N	Si	200J	T03	C 0	
60	MJ13334	70MΔ	700n	100n	4.0u	700n	175 0	5.0 0	5.0 0	10 Δ	250m	500p 0	N	Si	200J	T03	C 0	
61	MJ13335	70MΔ	700n	100n	4.0u	700n	175 0	5.0 0	5.0 0	10 Δ	250m	500p 0	N	Si	200J	T03	C 0	
62	NTA859	70MΔ	700n	100n	1.0u	300n	50	5.0 0	1.5 0	20 Δ			N	Si	200J	T03	C 0	
63	NTC1863	70MΔ	700n	100n	1.0u	300n	50	5.0 0	7.0 0	15 Δ			N	Si	200J	T03	C 0	
64	XGSA5030 #	70MΔ	700n		2.2u	.65u	10	5.0 0	5.0 0	10 # Δ	250p		N	Si	200J	T05	A	
65	XGSA5035 #	70MΔ	700n		2.2u	.65u	10	5.0 0	5.0 0	10 # Δ	250p		N	Si	200J	T05	A	
66	2N2000	2.0MΔ	700n	120n	650n	750n	300m	5.0 0	500m 0	300 0	700m	35p 0	N	Si	100S	T05	A	
67	IR3771	2.0MΔ	700n		1.0u	800n	200 0	4.0 0	3.0 0	5.0 Δ	133m		N	Si	200J	T03	C 0	
68	IR3772	2.0MΔ	700n		1.0u	800n	200 0	4.0 0	3.0 0	5.0 Δ	150m		N	Si	200J	T03	C 0	
69	MJ3771	2.0MΔ	700n		1.0u	800n	200 0	4.0 0	8.0 0	5.0 Δ	500m		N	Si	200J	T03	C 0	
70	MJ3772	2.0MΔ	700n		1.0u	800n	200 0	4.0 0	30 0	5.0 Δ	100m		N	Si	200J	T03	C 0	
71	MJ6257	2.0MΔ	700n		1.0u	800n	200 0	4.0 0	20 0	5.0 Δ	150m		N	Si	200J	T03	C 0	
72	PTC174	2.0MΔ	700n		1.1u	250 0	2.0 0	4.0 0	4.0 0	20 Δ			P	Si		T03	C 0	
73	PTC175	2.0MΔ	700n		1.1u	250 0	2.0 0	4.0 0	4.0 0	20 Δ			P	Si		T03	C 0	
74	2N438A	2.5MΔ	700n	800n	500n	150m	1.0 0	5.0m 0	25		5.0	20p 0	N	Ge	85J	T05	A 0	
75	2N1993	3.0MΔ	700n	120n	500n	800n	150m	1.0 0	10m 0	50 Δ	20	20p 0	N	Ge	100J	T05	A 0	
76	2N5867	4.0MΔ	700n		1.0u	800n	87 0	4.0 0	3.0 0	4.0 Δ	500m	200p 0	P	Si	200J	T03	C 0	
77	2N5868	4.0MΔ	700n		1.0u	800n	87 0	4.0 0	3.0 0	4.0 Δ	500m	200p 0	P	Si	200J	T03	C 0	
78	2N5869	4.0MΔ	700n		1.0u	800n	87 0	4.0 0	5.0 0	4.0 Δ	500m	150p 0	N	Si	2			