

# 7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

IN ORDER OF (1) DISSIPATION  
(2) TYPE No.

LINE No.	TYPE No.	MAX. DISS @ 25°C (W)	MAX. Vp & Vds (V)		ABS MAX RATINGS @ 25°C (V)		MAX. Id (A)		MAX. Ig (A)		MAX. Idss @ Vgs=0 & Vds=0 (A)		MAX. Igss @ Vgs=0 & Vds=0 (A)		PARAMETERS @ 25°C				DERATE IN FREE AIR W/°C		STRUCTURE	DWG Y200 s/a T0200 Ser.	# L C O D E
			Id=0 (V)	Vds (V)	BVdss (V)	BVgss (V)	Id (A)	Ig (A)	Idss (A)	Igss (A)	TEST COND		COMMON SOURCE		rDS(on) (Ω)	MAX. Cis (F)	MAX. TEMP (°C)						
			Vgs (V)	Vds (V)	(V)	(V)	(A)	(A)	(A)	(A)	Vgs (V)	Vds (V)	MIN (mhos)	MAX (mhos)	Yos (mhos)	on (Ω)	(F)	(°C)					
1	IRF720	40	3.5Δ	3.5	400#	2.5		1.0m	500n	1.5Δ	100	1.0	2.0 Δ	1.5 †	600p#	320m	150J	MAΔ	Y220b	DF			
2	IRF721	40	3.5Δ	3.5	350#	2.5		1.0m	500n	1.5Δ	100	1.0	2.0 Δ	1.5 †	600p#	320m	150J	MAΔ	Y220b	DF			
3	IRF722	40	3.5Δ	3.5	400#	2.0		1.0m	500n	1.5Δ	100	1.0	2.0 Δ	1.8 †	600p#	320m	150J	MAΔ	Y220b	DF			
4#	BUZ10	45	50	50		12	24	1.0m	100u	2.0	50	2.0	2.0	.10	80p	150							
5#	BUZ20	45	100	100		8.0	16	1.0m	100u	2.0	100	2.0	2.0	.20	70p	150							
6#	BF14-35	50			65	20Δ	2.0				10	600u			26pΔ		200J		W52	DN			
7#	KP904A	50	30†	85		30	5.0	500m	80m*	10n	0.0	20	400mΔ		90p	85A			F133	DG			
8#	2SK60	63 Δ	25			170Δ	5.0							3.3 %	190p#*	120J		D#	T03				
9#	BUZ23	63	2.0Δ		100#	8.0									75 *#	150J		M	F12C	DA			
10#	IRF1301	75	3.5Δ	3.5	100	12		1.0m	100n	0.0	25	3.0	5.0 Δ	.18 %	100p\$	600m	150J		T03	\$			
11#	IRF1311	75	3.5Δ	3.5	60	12		1.0m	100n	0.0	25	3.0	5.0 Δ	.18 %	100p\$	600m	150J		T03	\$			
12#	IRF1321	75	3.5Δ	3.5	100	10		1.0m	100n	0.0	25	3.0	5.0 Δ	.25 %	100p\$	600m	150J		T03	\$			
13#	IRF1331	75	3.5Δ	3.5	60	10		1.0m	100n	0.0	25	3.0	5.0 Δ	.25 %	100p\$	600m	150J		T03	\$			
14#	IRF2301	75	3.5Δ	3.5	200	7.0		1.0m	100n	0.0	25	2.5	4.5 Δ	0.3	600m	150J			T03	\$			
15#	IRF2311	75	3.5Δ	3.5	150	7.0		1.0m	100n	0.0	25	2.5	4.5 Δ	0.3	600m	150J			T03	\$			
16#	IRF2321	75	3.5Δ	3.5	200	6.0		1.0m	100n	0.0	25	2.5	4.5 Δ	0.4	600m	150J			T03	\$			
17#	IRF3301	75	3.5Δ	3.5	40	4.0		1.0m	100n	0.0	25	2.0	3.5 Δ	0.8	600m	150J			T03	\$			
18#	IRF3311	75	3.5Δ	3.5	350	4.0		1.0m	100n	0.0	25	2.0	3.5 Δ	0.8	600m	150J			T03	\$			
19#	IRF3321	75	3.5Δ	3.5	400	3.5		1.0m	100n	0.0	25	2.0	3.5 Δ	1.0	600m	150J			T03	\$			
20#	IRF3331	75	3.5Δ	3.5	350	3.5		1.0m	100n	0.0	25	2.0	3.5 Δ	1.0	600m	150J			T03	\$			
21#	IRF430	75	3.5Δ	3.5	500#	3.5		1.0m	100n	1.5Δ	100	1.5	2.5 Δ	1.3 †	1.3	600m	150J	MAΔ	T03	DA\$			
22#	IRF431	75	3.5Δ	3.5	450#	3.5		1.0m	100n	1.5Δ	100	1.5	2.5 Δ	1.3 †	1.3	600m	150J	MAΔ	T03	DA\$			
23#	IRF432	75	3.5Δ	3.5	500#	3.0		1.0m	100n	1.5Δ	100	1.5	2.5 Δ	1.5 †	1.5	600m	150J	MAΔ	T03	DA\$			
24#	IRF433	75	3.5Δ	3.5	450#	3.0		1.0m	100n	1.5Δ	100	1.5	2.5 Δ	1.5 †	1.5	600m	150J	MAΔ	T03	DA\$			
25#	IRF5301	75	3.5Δ	3.5	100	10		1.0m	500n	0.0	25	3.0	5.0 Δ	.14	100p\$	600m	150J		Y220b	DF			
26#	IRF5311	75	3.5Δ	3.5	60	10		1.0m	500n	0.0	25	3.0	5.0 Δ	.14	100p\$	600m	150J		Y220b	DF			
27#	IRF5321	75	3.5Δ	3.5	100	8.0		1.0m	500n	0.0	25	3.0	5.0 Δ	.20	100p\$	600m	150J		Y220b	DF			
28#	IRF5331	75	3.5Δ	3.5	60	8.0		1.0m	500n	0.0	25	3.0	5.0 Δ	.20	100p\$	600m	150J		Y220b	DF			
29#	IRF6301	75	3.5Δ	3.5	200	6.0		1.0m	500n	0.0	25	2.5	4.5 Δ	0.3	150p\$	600m	150J		Y220b	DF			
30#	IRF6311	75	3.5Δ	3.5	150	6.0		1.0m	500n	0.0	25	2.5	4.5 Δ	0.3	150p\$	600m	150J		Y220b	DF			
31#	IRF6321	75	3.5Δ	3.5	200	5.0		1.0m	500n	0.0	25	2.5	4.5 Δ	0.4	150p\$	600m	150J		Y220b	DF			
32#	IRF6331	75	3.5Δ	3.5	150	5.0		1.0m	500n	0.0	25	2.5	4.5 Δ	0.4	150p\$	600m	150J		Y220b	DF			
33#	IRF7301	75	3.5Δ	3.5	400	3.5		1.0m	500n	0.0	25	2.0	3.5 Δ	0.8	20p\$	600m	150J		Y220b	DF			
34#	IRF7311	75	3.5Δ	3.5	350	3.5		1.0m	500n	0.0	25	2.0	3.5 Δ	0.8	20p\$	600m	150J		Y220b	DF			
35#	IRF7321	75	3.5Δ	3.5	350	3.0		1.0m	500n	0.0	25	2.0	3.5 Δ	1.0	20p\$	600m	150J		Y220b	DF			
36#	IRF7331	75	3.5Δ	3.5	350	3.0		1.0m	500n	0.0	25	2.0	3.5 Δ	1.0	20p\$	600m	150J		Y220b	DF			
37#	IRF830	75	3.5Δ	3.5	500#	3.0		1.0m	500n	1.5Δ	100	1.5	2.5 Δ	1.3	900p#	600m	150J	MAΔ	Y220b	DF			
38#	IRF831	75	3.5Δ	3.5	450#	3.0		1.0m	500n	1.5Δ	100	1.5	2.5 Δ	1.3	900p#	600m	150J	MAΔ	Y220b	DF			
39#	IRF832	75	3.5Δ	3.5	500#	2.5		1.0m	500n	1.5Δ	100	1.5	2.5 Δ	1.5	900p#	600m	150J	MAΔ	Y220b	DF			
40#	IRF833	75	3.5Δ	3.5	450#	2.5		1.0m	500n	1.5Δ	100	1.5	2.5 Δ	1.5	900p#	600m	150J	MAΔ	Y220b	DF			
41	MTM474	75	20†		450Δ	4.0		25m	500n	2.0Δ	15	1.5	1.2m#	.6	150S	MA*	T03		DE				
42	MTM475	75	20†		500Δ	4.0		25m	500n	2.0Δ	15	1.5	1.2m#	.6	150S	MA*	T03		DE				
43	MTM564	75	20†		350Δ	5.0		25m	500n	2.5Δ	15	2.0	1.2m#	.6	150S	MA*	Y220b	DE					
44	MTM565	75	20†		400Δ	5.0		25m	500n	2.5Δ	15	2.0	1.2m#	.6	150S	MA*	Y220b	DE					
45	MTM1034	75	4.0†	20*	120	10	15	25m	500n	10	2.5	30	1.2n#	0.6	150J				T03	DE			
46	MTM1035	75	4.0†	20*	150	10	15	25m	500n	10	2.5	30	1.2n#	0.6	150S	MA*	T03		DE				
47	MTM1224	75	20†		60	12	15	25m	500n	6.0Δ	10	3.0	2.2 %	1.2m#	0.6	150S	MA*	T03		DE			
48	MTM1225	75	20†		100	12	15	25m	500n	6.0Δ	10	3.0	2.2 %	1.2m#	0.6	150S	MA*	Y220b	DF				
49	MTP474	75	20†		450	4.0	15	25m	500n	2.0Δ	15	1.5	2.2 %	1.2m#	0.6	150S	MA*	Y220b	DF				
50	MTP475	75	20†		500	4.0	15	25m	500n	2.0Δ	15	1.5	2.2 %	1.2m#	0.6	150S	MA*	Y220b	DF				
51	MTP564	75	20†		350	5.0	15	25m	500n	2.5Δ	15	2.0	1.5 %	1.2n#	0.6	150S	MA*	Y220b	DF				
52	MTP565	75	20†		400	5.0	15	25m	500n	2.5Δ	15	2.0	1.5 %	1.2n#	0.6	150S	MA*	Y220b	DF				
53	MTP1034	75	4.0†	20*	120	10	15	25m	500n	10	2.5	30	1.2n#	0.6	150J				T03	DE			
54	MTP1035	75	4.0†	20*	150	10	15	25m	500n	10	2.5	30	1.2n#	0.6	150J				Y220a				
55	MTP1224	75	20†		60	12	15	25m	500n	6.0Δ	10	3.0	25 %	1.2n#	0.6	150S	MA*	Y220b	DF				
56	MTP1225	75	20†		100	12	15	25m	500n	6.0Δ	10	3.0	25 %	1.2n#	0.6	150S	MA*	Y220b	DF				
57#	BUZ34	78	2.0Δ		200#	14		1.0m	100n	7.0Δ	25	8.0 Δ		400p#*		150J	M	F12C	DA				
58	VN64GA	80 Δ	4.0Δ	4.0*	60	60Δ	12		500u	100n	500Δ	20	1.5	2.2 Δ	750p#	641m	150C	VM	T03	DE\$			
59#	2SK173	95	1.9†		210	8.0	10				2.0Δ	10	1.6	2.0 Δ	1.5n#	120S	MAΔ		T03	DF			
60#	2SK133	100	1.5†	10	140†	14	7.0				10	600mΔ	1.3 Δ		600p#*	800m	150S	*	T03	DFΔ			
61#	2SK134	100	1.5†	10	140†	14	7.0				10	600mΔ	1.3 Δ		600p#*	800m	150S	*	T03	DF			
62#	2SK134H	100	1.5†	10	140†	14	7.0				10	0.6	1.3 Δ		500p#*	800m	150S	*	T03	DF			
63#	2SK135	100	1.5†	10	180†	14	7.0				10	600mΔ	1.3 Δ		600p#*	800m	150S	*	T03	DFΔ			
64#	2SK135H	100	1.5†	10	180†	14	7.0				10	0.6	1.3 Δ		500p#*	800m	150S	*	T03	DF			
65#	2SK220H	100	1.5†	10	160	20	8						1.0 Δ		800m	150S	*		T03	DF			
66#	2SK226	100	1.5†	10	140†	14	7.0						1.0 Δ		800m	150S	*		T03	DF			
67#	2SK227	100	1.5†	10	180†	14	7.0						1.0 Δ		800m	150S	*		F55				
68#	2SK272	100	80Δ	10	140†	8.0	8.0		1.0m	100n	8.0	10	1.0	1.5 Δ	800p#	960m	150S	M	B41	DFs			
69#	BUZ45	100	2.0Δ		500#	8.6					1.0m	100n	4.0Δ	25	12 Δ				F12C	DA			
70#	BUZ54	100	2.0Δ		1.0#	4.7					1.0m	100n	2.0Δ	25	7.0 Δ				F12C	DA			
71	SML2162	100	1.5†		150†	15	10								1.2n#	150S	M	MOSA	T03	DF			
72#	2SK271	120	90Δ	10	140†	8.0	8.0				1.0u	8.0	10	1.									