

# 7. SILICON FIELD EFFECT TRANSISTORS - N CHANNEL

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

LINE No.	TYPE No.	1 MAX. DEVICE @ 25°C (W)	MAX. Vp & Vds (V)		ABS MAX RATINGS @ 25°C (V)		Id (A)	Iq (A)	Idss @ Vgs=0 (A)	Icss @ Vgs=Vp & Vds=0 (A)	PARAMETERS @ 25°C				DERATE		STRUC-TURE	DWG Y200 s/a TO200 Ser.	# L C O A D E			
			Id=0 (V)	Vds (V)	BVdss (V)	BVgss (V)					TEST COND		COMMON SOURCE		r(DS) on (Ω)	MAX. Cis (F)				IN FREE AIR W/°C	MAX TEMP (°C)	
											Vgs (V)	Vds (V)	gfs (mhos)	Yos (mhos)								
1	2N5555T	310m	1.0†	0.0	25	25	40m	15m	1.0n	0.0	15	3.5m	7.5m	75u%	15k%	5.0p#	2.8m	150J	#	T092	DD	
2	2N5638T	310m						30Δ	1.0n	0.0	15	2.0m	7.5m	75u%	30%	10p#	2.8m	150S	#	T092	DD	
3	2N5639T	310m						30Δ	1.0n	0.0	15	2.0m	7.5m	75u%	60%	10p#	2.8m	150S	#	T092	DD	
4	2N5640T	310m						30Δ	1.0n	0.0	15	2.0m	7.5m	75u%	100%	10p#	2.8m	150S	#	T092	DD	
5	2N5653T	310m						30Δ	1.0n	0.0	15	2.0m	7.5m	75u%	50%	10p#	2.8m	150S	#	T092	DD	
6	2N5654T	310m						30Δ	1.0n	0.0	15	2.0m	7.5m	75u%	100%	10p#	2.8m	150S	#	T092	DD	
7	2N5668	310m	4.0†	15	25	25	10m	5.0m	2.0n	0.0	15	1.5m	6.5m	20u	7.0p#	2.8m	150S	#	T092	DD		
8	2N5669	310m	6.0†	15	25	25	10m	10m	2.0n	0.0	15	2.0m	6.5m	50u	7.0p#	2.8m	150S	#	T092	DD		
9	2N5670	310m	8.0†	15	25	25	10m	10m	2.0n	0.0	15	3.0m	7.5m	75u	7.0p#	2.8m	150S	#	T092	DD		
10	HEPFO021-RT	310m					30m												#	T092	DD	
11	MPF108	310m	8.0†	15Δ	25	25	25	24m	1.0n	0.0	15	2.0m	7.5m	75u%	6.5p	2.8m	135J	#	T092	DD		
12	MPF109	310m	8.0†	15Δ	25	25	25	24m	1.0n	0.0	15	800u%	6.0m%	75u%	7.0p	2.8m	135J	#	T092	DD		
13	MPF109B	310m	8.0†	15Δ	25	25	25	14m	1.0n	0.0	15	800u%	6.0m%	75u%	7.0p	2.8m	135J	#	T092	DD		
14	MPF109G	310m	6.0†	15Δ	25	25	25	8.0m	1.0n	0.0	15	800u%	6.0m%	75u%	7.0p	2.8m	135J	#	T092	DD		
15	MPF109N	310m	4.0†	15Δ	25	25	25	3.0m	1.0n	0.0	15	800u%	6.0m%	75u%	7.0p	2.8m	135J	#	T092	DD		
16	MPF109R	310m	4.0†	15Δ	25	25	25	1.6m	1.0n	0.0	15	800u%	6.0m%	75u%	7.0p	2.8m	135J	#	T092	DD		
17	MPF109V	310m	8.0†	15Δ	25	25	25	24m	1.0n	0.0	15	800u%	6.0m%	75u%	7.0p	2.8m	135J	#	T092	DD		
18	MPF109W	310m	2.0†	15Δ	25	25	25	1.0m	1.0n	0.0	15	800u%	6.0m%	75u%	7.0p	2.8m	135J	#	T092	DD		
19	MPF109Y	310m	6.0†	15Δ	25	25	25	5.0m	1.0n	0.0	15	800u%	6.0m%	75u%	7.0p	2.8m	135J	#	T092	DD		
20	PF5101	310m	1.0	15	25	25	30	10m	4.5	1.0n	15	8.0			12p	3.0m	150	#	T092	DD		
21	PF5102	310m	1.4	15	30	30	30	10m	13	1.0n	15	11			12p	3.0m	150	#	T092	DD		
22	PF5103	310m	2.2	15	30	30	30	10m	24	1.0n	15	12			12p	3.0m	150	#	T092	DD		
23	U311A	310m	6.0†	10	25Δ	25Δ	25Δ	10m	60m	150p	10	10m	20m		60	5.0p	2.8m	100J	#	T092	DB	
24	VN10KE	315m	2.5†	10*	60	60	250m	10u	10u	15	100m	200 Δ			48p	2.5m	150J	#	VM	DCs		
25	PTC183	320m					20Δ	50m				5.0m%	12m%						#	T072	DW	
26	2N5564▽	325m	3.0†	15Δ	40	40	40	30	30m%	100p	2.0†	15	7.5m	12m	45u	100	12p#	2.2m	200S	#	T071	PJ
27	2N5565▽	325m	3.0†	15Δ	40	40	40	30	30m%	100p	2.0†	15	7.5m	12m	45u	100	12p#	2.2m	200S	#	T071	PJ
28	2N5566▽	325m	3.0†	15Δ	40	40	40	30	30m%	100p	2.0†	15	7.5m	12m	45u	100	12p#	2.2m	200S	#	T071	PJ
29	NP05564	325m	3.0†	15Δ	40	40	40	30m	100p	2.0†	15†	7.5m%	12m%	45u%	100%	12p	2.2m	200S	#	S16	QW	
30	NP05565	325m	3.0†	15Δ	40	40	40	30m	100p	2.0†	15†	7.5m%	12m%	45u%	100%	12p	2.2m	200S	#	S16	QW	
31	NP05566	325m	3.0†	15Δ	40	40	40	30m	100p	2.0†	15†	7.5m%	12m%	45u%	100%	12p	2.2m	200S	#	S16	QW	
32	2N3821	330m	4.0†	15Δ	50	50	50	10m	2.5m	100p	0.0	15	1.5m	4.5m†	10u*	6.0p#	2.0m	200S	#	T072	DH	
33	2N3822	330m	6.0†	15Δ	50	50	50	10m	10m	100p	0.0	15	1.5m	6.5m†	20u*	6.0p#	2.0m	200S	#	T072	DH	
34	3N128	330m	8.0†	15Δ	20	20	20Δ	50m	25m	50p	5.0†	15	5.0m			7.0p#	2.2m	175S	#	T072	DW	
35	3N142	330m	8.0†	20Δ	20	20Δ	50m	25m	1.0n	5.0†	15	5.0m%				10p#	2.2m	175S	#	T072	DW	
36	3N143	330m	8.0†	15Δ	20	20Δ	50m	30m	1.0n	5.0†	15	5.0m%				7.0p#	2.2m	175S	#	T072	DW	
37	3N152	330m	8.0†	15Δ	20	8.0	50m	30m	1.0n	5.0†	15	5.0m	12m%			2.2m	175S	#	T072	DW		
38	3N154	330m	8.0†	15Δ	20	8.0	50m	25m	50p	5.0†	15	5.0m				2.2m	175S	#	T072	DW		
39	3N187	330m	4.0†	15Δ	20	20Δ	50m	1.0m	50m	7.2	15	7.0m	18m			2.2m	175S	#	T072	DX		
40	3N200	330m	3.0†	15Δ	20	6.0	50m	12m	50m	15	15	10m%	20m%			2.2m	175S	#	T072	DX		
41#	3SK45	330m				7.0	35m	32m	20n	4.0	15	14m%				4.0p	2.2m	175S	#	R217	DX	
42#	3SK51	330m	3.0†	15	20	7.0	35m	25m	20n	10†	15	17mΔ				2.0p#	2.2m	175S	#	T072	DX	
43#	3SK53	330m	1.7†	10	15†	8	33m	30m	20n	5	10	11m%				5.0p#	2.6m	150S	#	T072	DX	
44#	3SK60	330m	1.7†	10	15†	8	33m	20m	20n	3.0	6.0	11m%				5.0p#	2.6m	150S	#	T072	DX	
45	40673	330m	4.0†	15Δ	20	1.0	50m	35m	20n	4.0	15	12mΔ				6.0p#*	2.2m	175A	#	T072	DX	
46	40820	330m	3.0†	15Δ	20	9.0	50m	15m	50n	4.0	15	12mΔ				8.5p#	2.2m	175A	#	T072	DX	
47	40821	330m	3.0†	15Δ	20	11	50m	100u	20m	50n	4.0	15	12mΔ			9.0 #	2.2m	175A	#	T072	DX	
48	40822	330m	4.0†	15Δ	18	9.0	50m	100u	30m	50n	4.0	15	12mΔ			9.5 #	2.2m	175A	#	T072	DX	
49	40823	330m	4.0†	15Δ	18	11	50m	100u	35m	50n	4.0	15	12mΔ			10p#	2.2m	175A	#	T072	DX	
50#	BF910	330m	5.5	15Δ	20	30Δ	50m	10m	40m	100n	0.0	15	14m%			3.3m	150S	#	W97	ET		
51#	BF963	330m				6	50m	10m	40m	100n	4.0	15	25			2.5p*†	16m	150J	#	T050	DX	
52	HR3N187	330m	4.0†	15Δ	20	20	60	50m	50n	4.0	15	7.0m	18m			8.5p#	2.2m	175S	#	T072	DX	
53	HR3N200	330m	3.0†	15Δ	20	6.0	50m	50m	50n	4.0	15	10m	20m			8.5p#	2.2m	175S	#	T072	DX	
54	2N3069	350m	9.5	30		50Δ	100m	10m	1.0n	0.0	30	1.0m	2.5m	80u†	15p%	2.0m	200C	#	T018	DB		
55	2N3069A	350m	9.5	30Δ		50Δ	100m	10m	1.0n	0.0	30	1.0m	2.5m	80u	15p%	2.0m	200C	#	T018	DB		
56	2N3070	350m	4.5	30		50Δ	100m	2.5m	1.0n	0.0	30	750u	2.5m	30u†	15p%	2.0m	200C	#	T018	DB		
57	2N3070A	350m	4.5	30Δ		50Δ	100m	2.5m	1.0n	0.0	30	750u	2.5m	30u	15p%	2.0m	200C	#	T018	DB		
58	2N3071	350m	2.2	30		50Δ	100m	600u	1.0n	0.0	30	500u	2.5m	7.0u†	15p%	2.0m	200C	#	T018	DB		
59	2N3684	350m	4.5	20		50	7.5m	50m	7.5m	1.0n	0.0	20	2.0m	3.0m	50u%	4.0p#	2.0m	200S	#	T072	DH	
60	2N3684A	350m	5.0†	20		50	7.5m	50m	7.5m	100p	0.0	20	2.0m	3.0m	5.0u	4.0p#	2.0m	200S	#	T072	DH	
61#	2SK149	350m	-2†	10			35m	10m	32m	-50n						7.5p#*	3.5m	150J	#	Y206d	DJ	
62	3N210	350m	4.0†	15Δ	25	30Δ	30m	10m	30m	20n	4.0	15	10m%	20m%		7.0p	2.8m	150J	#	W13	EE	
63	3N224	350m	2.0†	15Δ	20	40Δ	50m	10m	12m	10n	4.0	15	17m	40m			2.8m	150J	#	W13	EN	
64#	3SK72	350m				8.0	30m	30m	20n							5.0p	135J	#	R243	GA		
65#	3SK79	350m				8.0	30m	12m	20n							3.0p	135J	#	R243	GA		
66#	3SK97	350m				6.0	80m	1.0m	80m	20	2.0	5.0	10	20		2.0p	125S	#	R246	GA		
67	BF256	350m	-3.0†			-30#	10m	18m	5n	0	15	4.5m	5.0mΔ			700f#*		150S	#	T092	DE	
68#	BF256LA	350m	7.5†	15Δ	30	30	50m	7.0m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p#*	3.5m	150S	#	R196	DA	
69#	BF256LB	350m	7.5†	15Δ	30	30	50m	13m	5.0n	0.0	15	4.5m	5.0mΔ	50u		4.5p#*	3.5m	150S	#	R196	DA	
70#	BF256LC	350m	7.5†	15Δ	30	30	50m	18m	5.0n	0.0	15	4.5m	5.0mΔ	50u								