

# 12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) tab & (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 <sub>bb</sub> X Cob (s)	STRUCTURE P-NPN N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L E A D E
								Vcb (V)	Ie (A)	hFE								
1#	BUX53	8.0MΔ	1.0u		2.5u	1.0u	10	4.0	1.6	10	Δ#	666m#		N-DM	Si	200J	T039	A
2#	BUX54	8.0MΔ	1.0u		3.5u	1.2u	10	4.0	1.2	10	Δ#	1.0 #		N-DM	Si	200J	T039	A
3#	BUX60	8.0MΔ	1.0u		1.5u	400n	70	4.0	8.0	10	Δ#	175m#		N-DM	Si	200J	T066	C
4#	BUX61	8.0MΔ	1.0u		1.5u	400n	70	4.0	6.0	10	Δ#	233m#		N-DM	Si	200J	T066	C
5#	BUX62	8.0MΔ	1.0u		2.5u	500n	70	4.0	5.0	10	Δ#	280m#		N-DM	Si	200J	T066	C
6	DTS4062	8.0MΔ	1.0u†		1.8u†	3.0u†	100	10	10	75	Δ	175m	200p□	N-D	Si	150S	T03	KF
7	DTS4072	8.0MΔ	1.0u†		1.5u†	500n†	100	10	10	75	Δ	175m	200p□	N-D	Si	150S	T03	KF
8	2N1316	10.0MΔ	1000n		800n	1.0u	200m	.25	1.0m	95			14p	P-A	Ge	85J	T05	A
9	2N5049	10.0MΔ	1000n		2.5u	1.0u	100	4.0	100u	15	Δ	250m		N	Si	200S	T061	A
10	2N6576	10MΔ	1.0u	150n	2.0u	7.0u	87	3.0	4.0	2.0k	Δ	280m		N	Si	200J	T03	KF
11	2N6577	10MΔ	1.0u	150n	2.0u	7.0u	87	3.0	4.0	2.0k	Δ	280m		N	Si	200J	T03	KF
12	2N6578	10MΔ	1.0u	150n	2.0u	7.0u	87	3.0	4.0	2.0k	Δ	280m		N	Si	200J	T03	KF
13#	2SC2139	10MΔ	1.0u		2.0u	1.0u	100	5.0	5.0	10	Δ#	300m#		N	Si	150J	T03	
14#	2SC2200	10MΔ	1.0u		2.0u	1.0u	40	5.0	3.0	10	Δ#	500m#		N	Si	150J	T03	
15	MJ4360	10MΔ	1.0u	100n	4.0u	700n	1.4	2.0	500m	8.0	Δ		21p	N	Si	150J	T066	C
16	MJ4361	10MΔ	1.0u	100n	4.0u	700n	1.4	2.0	500m	8.0	Δ		21p	N	Si	150J	T066	C
17	MJE13002	10MΔ	1.0u	100n	4.0u	700n	1.4	2.0	500m	8.0	Δ#	2.0 #	21p	N	Si	150J	T0126	D
18	MJE13003	10MΔ	1.0u	100n	4.0u	700n	1.4	2.0	500m	8.0	Δ#	2.0 #	21p	N	Si	150J	T0126	D
19#	2SC2738	11MΔ	1.0u		3.0u	1.0u	25	5.0	1.0	8.0	Δ			N	Si	150J	B26	D
20#	2SC2739	11MΔ	1.0u		3.0u	1.0u	40	5.0	1.0	8.0	Δ			N	Si	150J	B26	D
21#	2SC2740	11MΔ	1.0u		2.5u	1.0u	100	5.0	1.0	8.0	Δ			N	Si	150J	B38	D
22	2N316	12M	1.0u		800n	1.0u	100m	200m	200m	30	†Δ		14p	P-A	Ge	85S	T05	A
23#	2SC2199	12MΔ	1.0u		3.0u	1.0u	60	4.0	1.0	60		200m		N-EM	Si	150J	T03	C
24#	BUY20	15MΔ	1.0u†		3.0u	1.0u	85	5.0	3.0	40	#		200p□	N	Si	175J	T03	C
25#	BUY21	15MΔ	1.0u†		3.0u	1.0u	85	5.0	3.0	40	#		200p□	N	Si	175J	T03	C
26#	BUY22	15MΔ	1.0u†		3.0u	1.0u	85	5.0	3.0	40	#		200p□	N	Si	175J	T03	C
27#	BUR52	16MΔ	1.0u		2.0u	.60u	350	4.0	5.0	20	Δ			NPE	Si	200J	T03	C
28	2N3601	20.0MΔ	1000n	300n	2.0u	700n	500m	1.5	1.0	180	□	330m		P-DA	Ge	100J	R179q	□
29	2N3602	20.0MΔ	1000n	300n	2.0u	700n	750m	1.5	1.0	180	□	330m		P-DA	Ge	100J	T55	□
30	2N3603	20.0MΔ	1000n	300n	2.0u	700n	500m	1.5	1.0	180	□	330m		P-DA	Ge	100J	R179q	□
31	2N3604	20.0MΔ	1000n	300n	2.0u	700n	750m	1.5	1.0	180	□	330m		P-DA	Ge	100J	T55	□
32	JAN2N6051	20MΔ	1.0u		6.0u	.75	75	3.0	12	150	#Δ	333m#	300p□	P	Si	175J	T03	C
33	JAN2N6052	20MΔ	1.0u		6.0u	.75	75	3.0	12	150	#Δ	333m#	300p□	P	Si	175J	T03	C
34	JAN2N6058	20MΔ	1.0u		6.0u	.75	75	3.0	12	500	#Δ	333m#	300p□	N	Si	175J	T03	C
35	JAN2N6059	20MΔ	1.0u		6.0u	.75	75	3.0	12	500	#Δ	333m#	300p□	N	Si	175J	T03	C
36	2N6215	20MΔ	1.0u		1.0u	250n	125	2.0	25	25	Δ#			N	Si	200J	T063	A
37#	2SC728	20.0MΔ	1000n		8.0u	2.0u	350m	4.0	10m	90			9.0p	N	Si	175J	T018	
38#	2SC2292	20MΔ	1.0u		3.0u	700n	80	2.0	4.0	20		175m	110p	N	Si	150J	T03	
39#	2SC2293	20MΔ	1.0u		3.0u	700n	100	2.0	5.0	20		140m	110p	N	Si	150J	T03	
40#	2SC2501	20MΔ	1.0u		3.0u	700n	40	2.0	1.5	20		470m	40p	N	Si	150J	Y220b	
41#	2SC2502	20MΔ	1.0u		3.0u	700n	50	2.0	3.0	20		230m	75p	N	Si	150J	Y220b	
42#	2SC2503	20MΔ	1.0u		3.0u	700n	80	2.0	4.0	20		175m	110p	N	Si	150J		
43#	2SC2504	20MΔ	1.0u		3.0u	700n	100	2.0	5.0	20		140m	110p	N	Si	150J		
44#	2SC2505	20MΔ	1.0u		3.0u	700n	60	2.0	1.5	20		470m	40p	N	Si	150J	T066	
45#	2SC2506	20MΔ	1.0u		3.0u	700n	80	2.0	3.0	20		230m	75p	N	Si	150J	T066	
46#	2SC2507	20MΔ	1.0u		3.0u	700n	200	2.0	10	20		70m	250p	N	Si	150J	T03	
47#	BUR22	20MΔ	1.0u		2.0u	.70u	250	4.0	10	15	Δ			NPE	Si	200J	T03	C
48	BD253	25MΔ	1.0u	1.5u	2.0u	.50	50	4.0	1.0	15	#	666m#		N	Si	175J	T03	
49	BD253A	25MΔ	1.0u	1.5u	2.0u	.50	50	4.0	1.0	15	#	666m#		N	Si	175J	T03	
50	BD253B	25MΔ	1.0u	1.5u	2.0u	.50	50	4.0	1.0	15	#	666m#		N	Si	175J	T03	
51	BD253C	25MΔ	1.0u	1.5u	2.0u	.50	50	4.0	1.0	15	#	666m#		N	Si	175J	T03	
52#	BUY23	25MΔ	1.0u†		3.0u	1.0u	100	5.0	2.5	50			90p	N-DM	Si	175J	T03	C
53	2N6544	28MΔ	1.0u	50n	4.0u	1.0u	71	3.0	2.5	12	Δ	625m	300p□	N	Si	200J	T03	C
54	2N6545	28MΔ	1.0u	50n	4.0u	1.0u	71	3.0	2.5	12	Δ	625m	300p□	N	Si	200J	T03	C
55	2N6546	28MΔ	1.0u	50n	4.0u	700n	100	2.0	5.0	12	Δ	3.0	500p□	N	Si	200J	T03	C
56	2N6547	28MΔ	1.0u	50n	4.0u	700n	100	2.0	5.0	12	Δ	3.0	500p□	N	Si	200J	T03	C
57	2N4002	30.0MΔ	1000n		3u	4.0	4.0	4.0	1	30	†Δ	.04		N	Si	200J	T063	A
58	2N4003	30.0MΔ	1000n		3u	4.0	4.0	4.0	1	30	†Δ	.04		N	Si	200J	T063	A
59	2N3388	36.0MΔ	1000n	200n	400n	1.2u	600m	1.5	2.5m	60	Δ	400	35p□	N	Si	175A	T05	A
60	2N3389	36.0MΔ	1000n	200n	400n	1.2u	600m	1.5	2.5m	60	Δ	400	35p□	N	Si	175A	T05	A
61	JAN2N5302	40MΔ	1.0u		2.0u	3.0u	115	5.0	10	40	Δ	800p□		N	Si	200J	F6c	C
62	JAN2N5303	40MΔ	1.0u		2.0u	3.0u	115	5.0	10	40	Δ	800p□		N	Si	200J	F6c	C
63	2N5560	40.0MΔ	1.0u		2u	2u	150	2.0	1.0	30	Δ	.05		N	Si	200J	T063	A
64	JAN2N5745	40MΔ	1.0u		2.0u	3.0u	115	5.0	10	40	Δ	800p□		N	Si	200J	T03	C
65#	BUR13	40MΔ	1.0u		1.5u	.50u	250	5.0	1.0	25	Δ			NPE	Si	200J	T063	A
66	2N5264	50MΔ	1.0u		2.5u	1.5u	87	5.0	1.0	30	#		80p□	N	Si	200J	T03	C
67	2N6032	50MΔ	1.0u		1.5u	500n	80	2.8	5.0	10	#			N	Si	200J	F11	C
68	2N6033	50MΔ	1.0u		1.5u	500n	80	2.8	5.0	10	#			N	Si	200J	F11	C
69#	BUY18S	50MΔ	1.0u		1.0u	.50u	50	2.0	1.0	40	#		200m#	N-PE	Si	175J	T03	C
70	JAN2N388	60MΔ	1.0u		700n	700n	150m	750m	200m	30	#		20p□	N	Ge	100S	T05	A
71	JAN2N3439	75MΔ	1.0u		10u	10u	5.0	10	2.0m	30	Δ		10p□	N	Si	200S	T05	A
72	JAN2N3440	75MΔ	1.0u		10u	10u	5.0	10	2.0m	30	Δ		10p□	N	Si	200S	T05	A
73	JAN2N5415	75MΔ	1.0u		10u	10u	10	10	50m	30	#		15p□	P	Si	200J	T05	A
74	JAN2N5416	75MΔ	1.0u		10u	10u	10	10	50m	30	#		15p□	P	Si	200J	T05	A
75	MM2261	100MΔ	1.0u		1.0u	.50u	50	10	300m	25	Δ	3.3		NAN	Si	200J	T05	A
76	MM2262	100MΔ	1.0u		1.0u	.50u	50	10	500m	25	Δ	2.0		NAN	Si	200J	T05	A
77	MM2263	100MΔ	1.0u		1.0u	.50u	50	10	750m	25	Δ	1.3		NAN	Si	200J	T05	A
78#	2SC408	400M†	1000n	200n	4.0u	1.0u	100	5.0	5.0m	40		.20	500p□	P	Si	150J	F6	
79#	2SC410	400M†	1000n	200n	4.0u	1.0u	100	5.0	5.0m	40		.20	500p□	P	Si	150J	F6	
80#	2SC412	400M†	1000n	200n	4.0u	1.0u	100	5.0	5.0m	40		.20	500p□	P	Si	150J	F6	
81#	2SC432	400M†	1000n	200n	4.0u	1.0u	200	5.0	10m	40		.20	1m□	P	Si			