

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. P _c IN FREE AIR @ 25°C (W)	BIAS			MAX. SAT. RES. (Ω)	Cob (F)	r _{bb} X Cob (s)	STRUCTURE P-N-P P-N-PN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a T0200 Ser.	L C O D E
								Vcb (V)	le (A)	hFE								
1	2N2352A	50.0M\$	70n		150n	50n	400m	10	10	150m	60	1.6	N-PE	Si	200J	T046	A0	
2	2N2364	50.0M\$	70n	50n	500n	100n	400m	10	10	150m	120	2.3	N-PE	Si	200J	T046	A0	
3	2N2364A	50.0M\$Δ	70n		500n	100n	400m	10	10	150m	120	1.6	N-PE	Si	200J	T046	A0	
4	A5T2192	50M\$Δ	70n		150n	50n	625m	10	10	150m	100	2.3	N	Si	150S	R203	A	
5	A5T2193	50M\$Δ	70n		150n	50n	625m	10	10	150m	40	1.7	N	Si	150S	R203	A	
6#	BSY46	50.0MΔ	70n		150n	50n	800m	10	10	150m	80	#	N-PE	Si	200J	T05	A0	
7	MM2193A	50M\$Δ	70n		150n	50n	5.0	10	10	100	15	1.6	N-AN	Si	200J	T039	A	
8	2N4036	60M\$Δ	70n		600n	100n	7.0	10	10	150m	40	4.3m	P	Si	200J	T05	A0	
9#	BFR23	60M\$Δ	70n	110n	600n	100n	7.0	10	10	500m	20		P	Si	200J	T039	A0	
10	2N770	75M\$Δ	70n		20n	40n	150m	1.0	10	10m	60	2.5	N	Si	150S	T018	A	
11	2N772	75M\$Δ	70n		40n	70n	150m	5.0	20	20m	20	2.5	N	Si	150S	T018	A	
12	2N3638	100M\$Δ	70n	20n	140n	70n	700m	1.0	10	50m	30	#	P	Si	125J	R110a	A	
13	2N5142	100M\$Δ	70n	50n	150n	75n	700m	1.0	10	50m	30	#	P	Si	125J	T0105	A	
14	2N5143	100M\$Δ	70n	50n	150n	75n	500m	1.0	10	50m	30	#	P	Si	125J	T0106	A	
15#	A5T3638	100M\$Δ	70n	20n	140n	70n	625m	1.0	10	50m	30	#	P	Si	150S	R203	A	
16	MPS3638	100M\$Δ	70n		70n	70n	310m	1.0	10	50m	30	#	P-EA	Si	135	T092	A	
17	MPS3638#	100M\$	70n	20n	140n	70n	700m	10	10	10m	20	#	P1PE	Si	150S	T092	A	
18	MPS3638A#	100M\$	70n	20n	140n	70n	700m	10	10	10m	100	#	P1PE	Si	150S	T092	A	
19#	MPS3638K	100M\$Δ	70n	20n	140n	70n	1.2	10	10	10m	20	#	PPL	Si	175A	X167	A	
20#	MPS3638L	100M\$Δ	70n	20n	140n	70n	1.2	10	10	10m	20	#	PPL	Si	175A	X168	A	
21#	MPS3638M	100M\$Δ	70n	20n	140n	70n	1.2	10	10	10m	20	#	PPL	Si	175A	X169	A	
22	TP3638	100M\$Δ	70n	20n	140n	70n	360m	10	10	10m	20	#	P-PL	Si	150J	R203a	A	
23	TP5142	100M	70n	50n	150n	75n	625m	1.0	10	50m	30	#	P	Si	200J	T092	A	
24	2N1199	140M\$	70n		20n	40n	150m	1.0	10	20m	25		N-DA	Ge	150S	T09	A	
25	2N1472	140M\$	70n		40n	70n	150m	5.0	10	10m	35	25	N-DA	Ge	150S	T09	A	
26#	2SC1816	140M\$	70n	40n	60n	70n	1.3	2.0	100m	100	*	400m	N-ME	Si	120J	Y220b	D0	
27#	2SC1816H	140M\$	70n	40n	60n	70n	1.7	2.0	100m	100	*	400m	N-ME	Si	120J	Y220b	D0	
28	2N3638A	150M\$Δ	70n	20n	140n	70n	700m	10	10	10m	80	#	P	Si	125J	R110a	A	
29#	A5T3638A	150M\$Δ	70n	20n	140n	70n	625m	1.0	10	50m	100	Δ	P	Si	150S	R203	A	
30	MPS3638A	150M\$Δ	70n	20n	140n	70n	310m	1.0	10	50m	100	Δ	P	Si	135	T092	A	
31#	MPS3638AK	150M\$Δ	70n	20n	140n	70n	1.2	10	10	10m	100	#	PPL	Si	175A	X167	A	
32#	MPS3638AL	150M\$Δ	70n	20n	140n	70n	1.2	10	10	10m	100	#	PPL	Si	175A	X168	A	
33#	MPS3638AM	150M\$Δ	70n	20n	140n	70n	1.2	10	10	10m	100	#	PPL	Si	175A	X169	A	
34	TP3638A	150M\$Δ	70n	20n	140n	70n	360m	10	10	10m	100	#	P-PL	Si	150J	R203a	A	
35	2N4452	200M\$Δ	70n	25n	140n	70n	3	10	10	10m	120	Δ	P	Si	200J	T046	A	
36#	2SC715	200M\$	70n		170n	60n	125m	6.0	10	10m	80		N-PE	Si	125J	R145	D	
37#	BFY72	250M\$Δ	70n		170n	30	3.0	10	10	10m	85		N-DPE	Si	200J	T05	0	
38	2N828	300M\$Δ	70n		50n	50n	300m	.30	10	10m	25	Δ	P	Ge	100J	T018	A0	
39	2N3723	300M\$Δ	70n	15n	110n	50n	800m	1.0	10	100m	40	#	N	Si	200J	T05	A0	
40	2N5141	300M\$Δ	70n	45n	100n	70n	500m	2.0	10	10m	25	#	P	Si	125J	T0106	A	
41#	2SC423	500M\$	70n		120n	60n	500m	5.0	20	20m	80		N-PE	Si	175J	T039	A	
42#	2SC933	500M\$	70n		120n	60n	300m	5.0	20	20m	150		N-PE	Si	125J	T092	B	
43#	2SC934	500M\$	70n		120n	60n	200m	5.0	20	20m	80		N-PE	Si	125J	T0104	A	
44#	2SA711	800M\$Δ	70n		130n	170n	300m	1.0	10	10m	70	Δ	P-E	Si	150J	T018	A0	
45	2N2930	4.0M\$Δ	73n	350n	130n	73n	250m	.60	10	100m	50	Δ	Ge	100S	T05	A0		
46	2N695	75n	75n		100n	100n	75m	300m	10m	25	Δ	2.0	P	Ge	100J	T017	A	
47	JAN2N695	75n	75n		100n	100n	150m	300m	10m	25	Δ	2.0	P	Ge	100J	T017	A	
48	JAN2N705	75n	75n		100n	100n	150m	300m	10m	10	Δ		P	Ge	100J	T018	0	
49	2N705A	75n	50n		50n	75n	150m	300m	10m	25	Δ	30	P	Ge	100J	T018	A0	
50	2N710A	75n	50n		50n	75n	50m	500m	10m	25	Δ	50	P	Ge	100S	T018	A0	
51	2N782	75n	35n		35n	75n	300m	.25	10	10m	20	Δ	P	Ge	100J	T018	A0	
52	2N5019	75n	15n		100n	170n	1.8	10	2.0m	1.0	Δ	150	P	Si	200J	T018	DA	
53	MEM562C	75n	55n		100n	170n	500m	10				350	N*	Si	100J	T072	DR	
54	P1087E	75n	15n		100n	100n	350m					45p	P	Si	125J	R97b	DB	
55	P1087RR	75n	15n		75n	300m	50					45p	P	Si	150S	T092	DF	
56	ETP2008	20M\$Δ	75n		75n	800m	50	5.0m	65	t	150	*	N-PL	Si	175J	T05	A0	
57	2N865	24M\$Δ	75n		100n	150m	150m	500m	5.0m	45	Δ	2.0	P	Si	140S	T018	A	
58#	2SC1636	30M\$	75n	30n	600n	130n	300m	3.0	1.0m	2.0k	7.5	4.0p	N-E	Si	120J	X153	B	
59	2N2695	100M\$Δ	75n		170n	360m	360m	1.0	10	50m	30	t	P-E	Si	200J	T046	A0	
60	2N2696	100M\$Δ	75n		170n	360m	360m	1.0	10	50m	30	t	P-PE	Si	200J	T018	A0	
61	2N2927	100M\$Δ	75n		170n	30	3.0	1.0	10	50m	30	t	P	Si	200J	T05	A0	
62#	BD124	120M\$	75n	15n	240n	40n	15	5.0	500m	75		500m	N-PE	Si	175J	F9b	C0	
63	2N2400	150M\$Δ	75n	140n	130n	150m	150m	.50	10	30	Δ	22	Ge	100S	T018	A		
64	2N2401	200M\$Δ	75n	120n	110n	150m	150m	.50	10	50m	40	Δ	P	Ge	100S	T018	A	
65	2N3133	200M\$Δ	75n		150n	600m	600m	10	150m	120	20		P	Si	200S	T05	A0	
66	2N3134	200M\$Δ	75n		150n	600m	600m	10	150m	300	20		P	Si	200S	T05	A0	
67	2N3135	200M\$Δ	75n		150n	400m	400m	10	150m	120	20		P	Si	200S	T018	A0	
68	2N3136	200M\$Δ	75n		150n	400m	400m	10	150m	300	20		P	Si	200S	T018	A0	
69	TP3135	200M	75n		150n	400m	400m	.50	150m	40		10p	P	Si	200J	T092	A	
70	TP3136	200M	75n		150n	400m	400m	.50	150m	100		10p	N	Si	200J	T092	A	
71	2N2402	250M\$Δ	75n	100n	100n	150m	150m	.50	10	50m	50	Δ	P	Ge	100S	T018	A	
72	2N2958	250M\$Δ	75n	20n	300n	200n	30	10	150m	120	20	8.0p	N	Si	200S	T05	A0	
73	2N2959	250M\$Δ	75n	20n	300n	200n	30	10	150m	300	20	8.0p	N	Si	200S	T05	A0	
74	2N2960	250M\$Δ	75n	20n	300n	200n	3.0	10	1.0m	50	Δ	8.0p	N	Si	200S	T05	A0	
75	2N2961	250M\$Δ	75n	20n	300n	200n	3.0	10	500m	30	#	8.0p	N	Si	200S	T05	A0	
76	2N3115	250M\$Δ	75n	20n	300n	200n	400m	10	150m	40	Δ	8.0p	N	Si	175J	T018	A	
77	2N3116	250M\$Δ	75n	20n	300n	200n	400m	10	150m	100	Δ	8.0p	N	Si	175J	T018	A	
78	JAN2N2481	300M\$Δ	75n		20n	45n	360m	1.0	10	10m	120	25	N	Si	200J	T018	A0	
79	SDT6110	350M\$Δ	75n		75n	10	5.0	5.0	5.0	10	Δ	25p	N	Si	200J	T05	A0	
80	SDT6111	350M\$Δ	75n		75n	10	5.0	5.0	5.0	10	Δ	25p	N	Si	200J	T05	A0	
81	SDT6112	350M\$Δ	75n		75n	10	5.0	5.0	5.0	10	Δ	25p	N	Si	200J	T05	A0	
82	SDT6113	350M\$Δ	75n		75n	23	5.0	5.0	5.0	10	Δ	25p	N	Si	200J	T080	A0	
83	SDT6114	350M\$Δ	75n		75n	23	5.0	5.0	5.0	10	Δ	25p	N	Si	200J	T080	A0	
84	SDT6115	350M\$Δ	75n		75n	23	5.0	5.0	5.0									