

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-NPN N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	L E O D E
								Vcb (V)	Ic (A)	hFE								
1	2N4951	250MΔ	40n		350n	360n	360m	10	10m	40 #	8p		N	Si	150S	T098	B	
2	2N4952	250MΔ	40n		350n	360m	360m	10	10m	75 Δ	8p		N	Si	150S	T098	B	
3	2N4953	250MΔ	40n		400n	360m	360m	10	10m	150 Δ	8p		N	Si	150S	T098	B	
4	2N4954	250MΔ	40n		400n	360m	360m	10	10m	40 Δ	8p		N	Si	150S	T098	B	
5	2N5368	250MΔ	40n			350n	360m	10	10m	40 # Δ	8p		N	Si	150J	R207	A	
6	2N5369	250MΔ	40n			350n	360m	10	10m	75 # Δ	8p		N	Si	150J	R207	A	
7	2N5370	250MΔ	40n			400n	360m	10	10m	150 # Δ	8p		N	Si	150J	R207	A	
8	2N5371	250MΔ	40n			400n	360m	10	10m	40 # Δ	8p		N	Si	150J	R207	A	
9#	2SC619	250MΔ	40n		150n	250n	250m	6.0	10m	110 #	10	7.0p	100n	N-PET	Si	125J	T092	A
10#	2SC714	250MΔ	40n		150n	250n	250m	6.0	10m	60 #	10	7.0p	100n	N-PET	Si	125J	T092	D
11#	BFV54	250MΔ	40n			60n	150m	7.0	300m	10 Δ	8.0p		NPE	Si	200J	S5a	P	
12#	BFV88A	250MΔ	40n		20n	40n	360m	1.0	1.0m	20 Δ	8.0p		NPE	Si	200J	W5a	B	
13#	BFV88B	250MΔ	40n		20n	40n	360m	1.0	1.0m	35 Δ	8.0p		NPE	Si	200J	W5a	B	
14#	BFV88C	250MΔ	40n		20n	40n	360m	1.0	1.0m	10 # Δ	8.0p		NPE	Si	200J	W5a	B	
15#	BSV59	250M	40n			40n	360m	1.0	1.0m	30 #	8.0p		N	Si	200	TO18	A	
16#	BSX30	250MΔ	40n			60n	3.0	700m	300m	50 #	8.0p		N-DPE	Si	200J	T05	Ø	
17	GES5368	250MΔ	40n			350n	360m	1.0	1.0m	20 Δ	2.0 #		N-PE	Si	150S	T092	A	
18	GES5369	250MΔ	40n			350n	360m	1.0	1.0m	50 Δ	2.0 #		N-PE	Si	150S	T092	A	
19	GES5370	250MΔ	40n			400n	360m	1.0	1.0m	75 Δ	2.0 #		N-PE	Si	150S	T092	A	
20	GES5371	250MΔ	40n			400n	360m	1.0	1.0m	20 Δ	2.0 #		N-PE	Si	150S	T092	A	
21	JAN2N708	300MΔ	40n		25n	75n	1.2	1.0	500m	15 Δ	40		N	Si	200S	TO18	A	
22	2N914A	300MΔ	40n			40n	1.2	5.0	500m	25 # Δ	6.0p		N	Si	200J	TO18	A	
23	2N1708A	300MΔ	40n		25n	75n	1.0	1.0	10m	30 Δ	22		N	Si	200J	TO46	A	
24	2N2272	300MΔ	40n		20n	40n	360m	1.0	1.0m	60 # Δ	6.0p		N	Si	200	TO18	Ø	
25	2N3210	300MΔ	40n		20n	40n	1.2	1.0	10m	120 # Δ	3.7	6.0p	N	Si	300S	TO18	A	
26	2N3606	300MΔ	40n		35n	60n	200m	1.0	10m	30 Δ	25	6.0p	N	Si	150J	T098	B	
27	2N3606A	300MΔ	40n	35n		60n	320m	1.0	10m	120 Δ	2.5m #	6.0p	N	Si	120J	T098	B	
28	2N3734	300MΔ	40n	8.0n		60n	4.0	1.0	10m	35 Δ	20	9.0p	N	Si	200S	T05	A	
29	2N3734S	300MΔ	40n	8.0n		25n	4.0	1.0	500m	35 Δ	20	9.0p	N	Si	200S	TO39	A	
30	2N3736	300MΔ	40n	8.0n		60n	2.0	1.0	10m	35 Δ	20	9.0p	N	Si	200S	TO46	A	
31#	2SA571	300MΔ	40n		130n	160n	800m	1.0	50m	40 Δ	1.2	25p	P-PE	Si	175J	T05	Ø	
32	40221	300MΔ	40n			40n	360m	1.0	10m	30 Δ	6.0p		N	Si	200	T052	Ø	
33#	BFV46	300MΔ	40n		30n	50n	150m	2.0	200m	12 Δ	3.5	5.0p	NPE	Si	200J	S5a	P	
34#	BFV83A	300MΔ	40n		20n	40n	300m	5.0	500m	10 Δ	3.5	6.0p	NPE	Si	200J	W5a	B	
35#	BSV35A	300MΔ	40n		25n	75n	550m	1.0	10m	20 Δ	60	6.0p	N-PL	Si	175J	X156f	C	
36#	BSX87	300MΔ	40n			40n	360m	1.0	10m	30 # Δ	3.5	4.5p	NPE	Si	200J	TO18	A	
37#	BSX88	300MΔ	40n			75n	360m	1.0	10m	30 # Δ	40	4.0p	NPE	Si	200J	TO18	A	
38	BSY19	300MΔ	40n	25n		70n	320m*	1.0	10m	30 # Δ	40	6.0p	NAN	Si	200J	TO18	A	
39#	BSY21	300MΔ	40n			40n	360m	1.0	10m	120 # Δ	3.5	6.0p	N	Si	200J	TO18	A	
40#	BSY63	300MΔ	40n			75n	400m	1.0	10m	120	2.7p		N-PE	Si	200J	TO18	A	
41	EN708	300MΔ	40n		75n	200m	200m	1.0	10m	120 # Δ	85	6.0p	N	Si	125J	TO106	A	
42	EN914	300MΔ	40n		40n	200m	200m	1.0	10m	120 # Δ	80	6.0p	N	Si	125J	TO106	A	
43	MM5189	350MΔ	40n			70n	4.0	1.0	1.0	20 # Δ	1.0 #	7.3p	N-AN	Si	200J	T039	A	
44	2N706B	400MΔ	40n			75n	300m	1.0	10m	40	40	4.5p	N-ME	Si	175J	TO18	A	
45	2N4121	400MΔ	40n	15n	140n	40n	200m	1.0	10m	70 Δ	130	4.5p	P	Si	125J	R110	A	
46	2N4122	400MΔ	40n	15n	140n	40n	200m	1.0	10m	150 # Δ	130	4.5p	P	Si	125J	R110	A	
47	2N4916	400MΔ	40n	15n	140n	40n	200m	1.0	10m	70 # Δ	130	4.5p	P	Si	125J	R124	A	
48	2N4035	450MΔ	40n	15n	140n	40n	1.0	1.0m	150 Δ	130	3.5p	P	Si	200J	TO18	A		
49	2N4917	450MΔ	40n	15n	140n	40n	200m	1.0	10m	150 # Δ	130	4.5p	P	Si	125J	R124	A	
50#	BSX60	475MΔ	40n			70n	800m	1.0	150m	100 Δ	2.0	10p	N-PE	Si	200J	T05	A	
51	JAN2N3735	600MΔ	40n	8.0n		60n	1.0	1.0	10m	35 Δ	1.0 #	9.0p	N	Si	200J	T05	A	
52	JAN2N3737	600MΔ	40n	8.0n		60n	500m	1.0	10m	35 Δ	1.0 #	9.0p	N	Si	200J	T046	A	
53	JAN2N706	700MΔ	40n		35n	75n	300m	1.0	1.0m	20 Δ	50	6.0p	N	Si	200S	TO18	A	
54	JAN2N914	1.2GΔ	40n		20n	40n	1.2	1.0	200m	15 # Δ	6.0p		N	Si	200S	TO18	A	
55#	2SC913	250MΔ	42n		25n	38n	300m	1.0	30m	45 t Δ	5.0p		N-PE	Si	175J	TO18	A	
56#	2SC915	250MΔ	42n		25n	38n	300m	1.0	30m	45 Δ	5.0p		N-PE	Si	175J	TO18	A	
57#	2SA799	45n	42n		80n	110n	1.0	1.0	500m	54	900m		P-PE	Si	200J	T039	A	
58#	2SC564	45n	50n		35n	65m	1.0	1.0	150m	50	4.0	12p	N-PE	Si	175J	T039	A	
59#	2SC2311	45n	70n		90n	1.0	1.0	1.0	500m	55	1.2	9.0p	N-PE	Si	150J	B7a	B	
60	3N184	45n	35n		55n	150n	300m	1.0	10m	30 Δ	10	9.0p	PMOS	Si	200S	T072	DM	
61	2N1132B	60.0MΔ	45n			35n	2.0	10	150m	30 Δ	2.6	25p	P	Si	175J	T039	A	
62	2N2800	120MΔ	45n	25n	225n	45n	800m	10	150m	90 Δ	2.6	25p	P	Si	200S	T05	A	
63	2N2800S	120MΔ	45n	25n	225n	45n	800m	10	150m	90 Δ	2.6	25p	P	Si	200S	T039	A	
64	2N2801	120MΔ	45n	25n	225n	45n	800m	10	150m	225 Δ	2.6	25p	P	Si	200S	T05	A	
65	2N2837	120MΔ	45n	25n	225n	45n	500m	10	150m	90 Δ	2.6	25p	P	Si	200S	TO18	A	
66	2N2838	120MΔ	45n	25n	225n	45n	500m	10	150m	225 Δ	2.6	25p	P	Si	200S	TO18	A	
67#	2SC2107	150MΔ	45n		190n	250n	150m	1.0	10m	130 Δ*	30	5.0p	NET	Si	125J	X156b	A	
68#	2SC2107G3	150MΔ	45n		190n	250n	150m	1.0	10m	130 Δ*	30	5.0p	NET	Si	125J	X156b	A	
69#	2SC2107G4	150MΔ	45n		190n	250n	150m	1.0	10m	170 Δ*	30	5.0p	NET	Si	125J	X156b	A	
70#	2SC2107G5	150MΔ	45n		190n	250n	150m	1.0	10m	240 Δ*	30	5.0p	NET	Si	125J	X156b	A	
71#	2SC2107G6	150MΔ	45n		190n	250n	150m	1.0	10m	320 Δ*	30	5.0p	NET	Si	125J	X156b	A	
72#	2SC2109	150MΔ	45n		190n	250n	300m	1.0	100m	70	6.0	5.0p	NET	Si	150J	R221	F	
73#	ZTX650	175MΔ	45n		800n	1.0	2.0	500m	200 #	300m #			N-PLT	Si	200J	B58a	A	
74#	ZTX650K	175MΔ	45n		800n	1.0	2.0	500m	200 #				N-PLT	Si	200J	B58a	A	
75#	ZTX650L	175MΔ	45n		800n	1.0	2.0	500m	200 #				N-PLT	Si	200J	B58a	A	
76#	ZTX650M	175MΔ	45n		800n	1.0	2.0	500m	200 #				N-PLT	Si	200J	B58a	A	
77#	ZTX650S	175MΔ	45n		800n	1.0	2.0	500m	200 #				N-PLT	Si	200J	B58a	A	
78#	ZTX651	175MΔ	45n		800n	1.0	2.0	500m	200 #	300m #			N-PLT	Si	200J	B58a	A	
79#	ZTX651K	175MΔ	45n		800n	1.0	2.0	500m	200 #				N-PLT	Si	200J	B58a	A	
80#	ZTX651L	175MΔ	45n		800n	1.0	2.0	500m	200 #				N-PLT	Si	200J	B58a	A	
81#	ZTX651M	175MΔ	45n		800n	1.0	2.0	500m	200 #				N-PLT	Si	200J	B58a	A	
82#	ZTX651S	175MΔ	45n		800n	1.0	2.0	500m	200 #				N-PLT	Si	200J	B58a	A	
83	JAN2N2904	200MΔ	45n		18n*	175n	3.0	10	10m	35	8.0p		P	Si	200S	T05	A	
84	JAN2N2904A	200MΔ	45n		18n*	175n	3.0	10	10m	40	8.0p		P	Si	200S	T05</		