

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-NPN N-NPN	M A T	MAX. TEMP (°C)	DWG # Y200 s/a TO200 Ser.	LEODE
								V _{cb} (V)	I _e (A)	hFE								
1	2N4951	250M Δ	40n \emptyset		350n \emptyset		360m	10 \emptyset	10m \emptyset	40 # Δ			N	Si	150S	T098	B	
2	2N4952	250M Δ	40n \emptyset		350n \emptyset		360m	10 \emptyset	10m \emptyset	75 Δ			N	Si	150S	T098	B	
3	2N4953	250M Δ	40n \emptyset		400n \emptyset		360m	10 \emptyset	10m \emptyset	150 Δ			N	Si	150S	T098	B	
4	2N4954	250M Δ	40n \emptyset		400n \emptyset		360m	10 \emptyset	10m \emptyset	40 # Δ			N	Si	150S	T098	B	
5	2N5368	250M Δ	40n \emptyset			350n \emptyset	360m	10 \emptyset	10m \emptyset	40 # Δ			N	Si	150J	R207	A	
6	2N5369	250M Δ	40n \emptyset			350n \emptyset	360m	10 \emptyset	10m \emptyset	75 # Δ			N	Si	150J	R207	A	
7	2N5370	250M Δ	40n \emptyset			400n \emptyset	360m	10 \emptyset	10m \emptyset	150 # Δ			N	Si	150J	R207	A	
8	2N5371	250M Δ	40n \emptyset			400n \emptyset	360m	10 \emptyset	10m \emptyset	40 # Δ			N	Si	150J	R207	A	
9 #	2SC619	250M Δ	40n \emptyset		150n	250n	250m	6.0 \emptyset	10m \emptyset	110 #	10	7.0p	100n	N-PET	Si	125J	T092	A
10 #	2SC714	250M Δ	40n \emptyset		150n	250n	250m	6.0 \emptyset	10m \emptyset	60 #	10	7.0p	100n	N-PET	Si	125J	T092	D
11 #	BFV54	250M Δ	40n \emptyset			60n \emptyset	150m	7.0 \emptyset	300m \emptyset	10 Δ			NPE	Si	200J	S5a	P	
12 #	BFV88A	250M Δ	40n \emptyset		20n	40n \emptyset	360m	10 \emptyset	1.0m \emptyset	20 Δ			NPE	Si	200J	W5a	B	
13 #	BFV88B	250M Δ	40n \emptyset		20n	40n \emptyset	360m	10 \emptyset	1.0m \emptyset	35 Δ			NPE	Si	200J	W5a	B	
14 #	BFV88C	250M Δ	40n \emptyset		20n	40n \emptyset	360m	7.0 \emptyset	300m \emptyset	10 # Δ			NPE	Si	200J	W5a	B	
15 #	BSV59	250M Δ	40n \emptyset			40n \emptyset	360m	10 \emptyset	150m \emptyset	30 #			N	S	200	TO18	A	
16 #	BSX30	250M Δ	40n \emptyset			60n \emptyset	3.0 \emptyset	700m \emptyset	300m \emptyset	50 #			N-DPE	Si	200J	T05	\emptyset	
17 #	GES5368	250M Δ	40n \emptyset			350n \emptyset	360m	10 \emptyset	1.0m \emptyset	20 Δ	2.0 #		N-PET	Si	150S	T092	A	
18 #	GES5369	250M Δ	40n \emptyset			350n \emptyset	360m	10 \emptyset	1.0m \emptyset	50 Δ	2.0 #		N-PET	Si	150S	T092	A	
19 #	GES5370	250M Δ	40n \emptyset			400n \emptyset	360m	10 \emptyset	1.0m \emptyset	75 Δ	2.0 #		N-PE	Si	150S	T092	A	
20 #	GES5371	250M Δ	40n \emptyset			400n \emptyset	360m	10 \emptyset	1.0m \emptyset	20 Δ	2.0 #		N-PE	Si	150S	T092	A	
21 #	JAN2N708	300M Δ	40n \emptyset		25n	75n \emptyset	1.2 \emptyset	1.0 \emptyset	500m \emptyset	15 Δ	40		N	Si	200S	TO18	A	
22 #	2N914A	300M Δ	40n \emptyset			40n	1.2 \emptyset	5.0 \emptyset	500m \emptyset	25 # Δ			N	Si	200J	TO18	A	
23 #	2N1708A	300M Δ	40n \emptyset		25n	75n \emptyset	1.0 \emptyset	1.0 \emptyset	10m \emptyset	30 Δ	22		N	Si	200J	TO46	A	
24 #	2N2272	300M Δ	40n \emptyset		20n	40n \emptyset	360m	1.0 \emptyset	10m \emptyset	60 # Δ			N	Si	200	TO18	\emptyset	
25 #	2N3210	300M Δ	40n \emptyset		20n	40n \emptyset	1.2 \emptyset	1.0 \emptyset	10m	120 # Δ	3.7		N	Si	300S	TO18	A	
26 #	2N3606	300M Δ	40n \emptyset		35n	60n \emptyset	200m	1.0 \emptyset	10m \emptyset	30 Δ	25		N	Si	150J	T098	B	
27 #	2N3606A	300M Δ	40n \emptyset	35n		60n \emptyset	320m	1.0 \emptyset	10m \emptyset	120 \emptyset	2.5m #		N	Si	120J	T098	B	
28 #	2N3734	300M Δ	40n	8.0n		60n \emptyset	4.0 \emptyset	1.0 \emptyset	10m \emptyset	35 Δ	20		N	Si	200S	T05	A	
29 #	2N3734S	300M Δ	40n	8.0n		25n	4.0 \emptyset	1.0 \emptyset	500m \emptyset	35 Δ	20		N	Si	200S	TO39	A	
30 #	2N3736	300M Δ	40n	8.0n		60n \emptyset	2.0 \emptyset	1.0 \emptyset	10m \emptyset	35 Δ	20		N	Si	200S	TO46	A	
31 #	2SA571	300M Δ	40n \emptyset			130n \emptyset	160n \emptyset	800m	10 \emptyset	50m \emptyset	40 Δ	1.2		P-PE	Si	175J	T05	\emptyset
32 #	40221	300M Δ	40n \emptyset			40n \emptyset	360m	1.0 \emptyset	10m \emptyset	30 Δ			N	Si	200	T052	\emptyset	
33 #	BFV46	300M Δ	40n \emptyset			30n	50n \emptyset	150m	2.0 \emptyset	200m \emptyset	12 Δ	3.5		NPE	Si	200J	S5a	P
34 #	BFV83A	300M Δ	40n \emptyset		20n	40n \emptyset	300m	5.0 \emptyset	500m \emptyset	10 Δ	3.5		NPE	Si	200J	W5a	B	
35 #	BSV35A	300M Δ	40n \emptyset		25n	75n \emptyset	550m	1.0 \emptyset	10m \emptyset	20 Δ	60		N-PL	Si	175J	X156f	C	
36 #	BSX87	300M Δ	40n \emptyset			40n \emptyset	360m	1.0 \emptyset	10m \emptyset	30 # Δ	3.5		NPE	Si	200J	TO18	A	
37 #	BSX88	300M Δ	40n \emptyset			75n \emptyset	360m	1.0 \emptyset	10m \emptyset	30 # Δ	40		NPE	Si	200J	TO18	A	
38 #	BSY19 \emptyset	300M Δ	40n \emptyset	25n \emptyset		70n \emptyset	320m*	1.0 \emptyset	10m \emptyset	30 # Δ	40		NAN	Si	200J	TO18	A	
39 #	BSY21	300M Δ	40n \emptyset			40n	360m	1.0 \emptyset	10m \emptyset	120 # \emptyset	3.5		N	Si	200J	TO18	A	
40 #	BSY63	300M Δ	40n \emptyset			75n \emptyset	400m	1.0 \emptyset	10m \emptyset	120 \emptyset			N-PE	Si	200J	TO18	A	
41 #	EN708	300M Δ	40n \emptyset		75n \emptyset	200m	2.0m	1.0 \emptyset	10m \emptyset	120 # \emptyset	85		N	Si	125J	TO106	A	
42 #	EN914	300M Δ	40n \emptyset		40n \emptyset	200m	2.0m	1.0 \emptyset	10m \emptyset	120 # \emptyset	80		N	Si	125J	TO106	A	
43 #	MM5189	350M Δ	40n \emptyset			70n \emptyset	4.0 \emptyset	1.0 \emptyset	1.0 \emptyset	20 # Δ	1.0 #		N-AN	Si	200J	T039	A	
44 #	2N708B	400M Δ	40n \emptyset			75n \emptyset	300m	1.0 \emptyset	10m	40	40		N-ME	Si	175J	TO18	A	
45 #	2N4121	400M Δ	40n	15n	140n	40n	200m	1.0 \emptyset	10m \emptyset	70 Δ	130		N	Si	125J	R110	A	
46 #	2N4122	400M Δ	40n	15n	140n	40n	200m	1.0 \emptyset	10m \emptyset	150 # Δ	130		P	Si	125J	R110	A	
47 #	2N4916	400M Δ	40n	15n	140n	40n	200m	1.0 \emptyset	10m \emptyset	70 # Δ	130		P	Si	125J	R124	A	
48 #	2N4035	450M Δ	40n	15n	140n	40n	1.0 \emptyset	1.0 \emptyset	1.0m \emptyset	150 Δ	130		P	Si	200J	TO18	A	
49 #	2N4917	450M Δ	40n	15n	140n	40n	200m	1.0 \emptyset	10m \emptyset	150 # Δ			P	Si	125J	R124	A	
50 #	BSX60	475M Δ	40n \emptyset			70n \emptyset	800m	1.0 \emptyset	150m \emptyset	100 \emptyset	2.0		N-PE	Si	200J	T05	A	
51 #	JAN2N3735	600M Δ	40n	8.0n		60n \emptyset	1.0	1.0 \emptyset	10m \emptyset	35 Δ	1.0 #		N	Si	200J	T05	A	
52 #	JAN2N3737	600M Δ	40n	8.0n		60n \emptyset	500m	1.0 \emptyset	10m \emptyset	35 Δ	1.0 #		N	Si	200J	TO46	A	
53 #	JAN2N706	700M Δ	40n \emptyset		35n	75n \emptyset	300m	1.0 \emptyset	1.0m \emptyset	20 Δ	50		N	Si	200S	TO18	A	
54 #	JAN2N914	1.2G Δ	40n \emptyset		20n	40n \emptyset	1.2 \emptyset	1.0 \emptyset	200m \emptyset	15 Δ #			N	Si	200S	TO18	A	
55 #	2SC913	250M Δ	42n \emptyset		25n	38n \emptyset	300m	1.0 \emptyset	30m \emptyset	45 t Δ			N-PE	Si	175J	TO18	A	
56 #	2SC915	250M Δ	42n \emptyset		25n	38n \emptyset	300m	1.0 \emptyset	30m \emptyset	45 Δ			N-PE	Si	175J	TO18	A	
57 #	2SA799	45n \emptyset			80n	110n \emptyset	1.0	1.0 \emptyset	500m \emptyset	54	900m		P-PE	Si	200J	T039	A	
58 #	2SC564	45n \emptyset			50n \emptyset	35n \emptyset	650m	1.0 \emptyset	150m \emptyset	50	4.0		N-PE	Si	175J	TO39	A	
59 #	2SC2311	45n			70n	90n	1.0	1.0 \emptyset	500m \emptyset	55	1.2		N-PE	Si	150J	B7a	A	
60 #	3N184	45n		35n \emptyset	55n \emptyset	150n	300m	1.0 \emptyset	10m \emptyset	30 Δ	10		PMOS Δ	Si	200S	TO72	DM	
61 #	2N1132B	60.0M Δ	45n \emptyset			35n \emptyset	2.0 \emptyset	10 \emptyset	150m \emptyset	30 Δ			P	Si	175J	TO39	A	
62 #	2N2800	120M Δ	45n	25n	225n	45n	800m	10 \emptyset	150m \emptyset	90 \emptyset	2.6		P	Si	200S	T05	A	
63 #	2N2800S	120M Δ	45n	25n	225n	45n	800m	10 \emptyset	150m \emptyset	90 \emptyset	2.6		P	Si	200S	TO39	A	
64 #	2N2801	120M Δ	45n	25n	225n	45n	800m	10 \emptyset	150m \emptyset	225 \emptyset	2.6		P	Si	200S	T05	A	
65 #	2N2837	120M Δ	45n	25n	225n	45n	500m	10 \emptyset	150m \emptyset	90 \emptyset	2.6		P	Si	200S	TO18	A	
66 #	2N2838	120M Δ	45n	25n	225n	45n	500m	10 \emptyset	150m \emptyset	225 \emptyset	2.6		P	Si	200S	TO18	A	
67 #	2SC2107	150M Δ	45n \emptyset		190n \emptyset	250n \emptyset	150m	1.0 \emptyset	10m \emptyset	130 \emptyset *	30	5.0p \emptyset	NET	Si	125J	X156b	A	
68 #	2SC2107G3	150M Δ	45n \emptyset		190n \emptyset	250n \emptyset	150m	1.0 \emptyset	10m \emptyset	130 \emptyset *	30	5.0p \emptyset	NET					