

# 12. SWITCHING TRANSISTORS

IN ORDER OF (1) MAX RISE TIME, (2) fab & (3) TYPE No.

LINE No.	TYPE No.	fab (Hz)	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-N-PN	M A T	MAX. TEMP (°C)	Y200 s/a TO200 Ser	DWG #	L E O A D E
								Vcb (V)	Ic (A)	hFE									
1	164-24		6.0u				200	4.0	5.0	25	200m			N-A	Si	175J	T33	A	
2	164-24SPC		6.0u			12u	200	4.0	5.0	25	200m			N-A	Si	175J	T33	A	
3	164-26SPC		6.0u			12u	200	4.0	5.0	25	200m			N	Si	175J	T33	A	
4	164-28SPC		6.0u			12u	200	4.0	5.0	25	200m			N	Si	175J	T33	A	
5	164-30SPC		6.0u			12u	200	4.0	5.0	25	200m			N	Si	175J	T33	A	
6	3N46	12kt	6000n			1.2u	75	2.0	10m	27			P-A	Ge	100J	TO15	GB		
7	2N1015	.02M	6000n		20u		700m	4.0	2	10			N	Si	150J	T1	B		
8	2N1015A	.02M	6000n		20u		700m	4.0	2	10			N	Si	150J	T1	B		
9	2N1015B	.02M	6000n		20u		700m	4.0	2	10			N	Si	150J	T1	B		
10	2N1015D	.02M	6000n		20u		700m	4.0	2	10			N	Si	150J	T1	B		
11	2N1015E	.02M	6000n		20u		700m	4.0	2	10			N	Si	150J	T1	B		
12	2N1015F	.02M	6000n		20u		700m	4.0	2	10			N	Si	150J	T1	B		
13	2N1015F	.02M	6000n		20u		700m	4.0	2	10			N	Si	150J	T1	B		
14	2N1018	20kt	6.0u				150	4.0	5.0	10	500m		N-F	Si	150J	T1	B		
15	2N1018A	20kt	6.0u			10u	150	4.0	5.0	10	500m		N-F	Si	150J	T1	B		
16	2N1018B	20kt	6.0u			10u	150	4.0	5.0	10	500m		N-F	Si	150J	T1	B		
17	2N1018C	20kt	6.0u			10u	150	4.0	5.0	10	500m		N-F	Si	150J	T1	B		
18	2N1018D	20kt	6.0u			10u	150	4.0	5.0	10	500m		N-F	Si	150J	T1	B		
19	2N1018E	20kt	6.0u			10u	150	4.0	5.0	10	500m		N-F	Si	150J	T1	B		
20	2N1018F	20kt	6.0u			10u	150	4.0	5.0	10	500m		N-F	Si	150J	T1	B		
21	2N2584	30kT	6.0u	6.0u	5.0u		150	5.0	5.0m	10	14		N	Si	150C	TO36	C		
22	2N2585	30kT	6.0u	6.0u	5.0u		150	5.0	10m	10	1.0		N	Si	150C	TO36	C		
23	2N3079	.03M	6000n	6.0u	5.0u		150	5.0	5.0m	10	14		N	Si	150C	TO36	C		
24	2N3080	.03M	6000n	6.0u	5.0u		150	5.0	5.0m	10	14		N	Si	150C	TO36	C		
25	163-04	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
26	163-05	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
27	163-06	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
28	163-07	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
29	163-08	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
30	163-09	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
31	163-10	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
32	163-12	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
33	163-14	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
34	163-16	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
35	163-18	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
36	163-20	250k	6.0u	5.0u	7.0u		200	4.0	5.0	15	220m	1.5n	N-A	Si	175A	T33	A		
37	164-04	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
38	164-05	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
39	164-06	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
40	164-07	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
41	164-08	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
42	164-09	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
43	164-10	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
44	164-12	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
45	164-14	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
46	164-18	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
47	164-18	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
48	164-20	250k	6.0u	5.0u	7.0u		200	4.0	5.0	25	200m	1.5n	N-A	Si	175A	T33	A		
49	DTG1010	450k	6.0u	1.6u	7.0u	106	105	2.0	4.0	25	160m		P	Ge	110J	TO3	C		
50	DTG1110	450k	6.0u	1.6u	7.0u	106	105	2.0	4.0	25	160m		P	Ge	110J	TO3	C		
51	DTG1110B	450k	6000n	1.6u	1.4u	105	105	2.0	4.0	25	160m		P-D	Ge	110	TO3	C		
52	2N3667	500k	6.0u	1.2u	117	117	3.0	8.0	15	#	160m		N	Si	200J	TO3	C		
53	DTG1210A	700k	6000n	1.6u	1.4u	105	105	2.0	1.0	35	160m		P-D	Si	110	TO3	C		
54	2N5559	.80M	6.0u	1.6u	1.4u	105	105	2.0	4	20	19	400p	N	Si	200J	TO3	C		
55	JAN2N3055	4.0M	6.0u	1.2u	117	117	4.0	500m	40	#	200m	700p	N	Si	200J	TO3	C		
56	2N557	6.5u	2.5u	100m	200m	12	12	5.0	20	17	2.5	20p	N-A	Ge	85J	TO5	A		
57	2N2751	7000n	13u	20ms	12	12	5.0	20	17	17	.07		N	Si	175C	T1	B		
58	2N2752	7000n	13u	20ms	12	12	5.0	20	17	17	.07		N	Si	175C	T1	B		
59	2N2753	7000n	13u	20ms	12	12	5.0	20	17	17	.07		N	Si	175C	T1	B		
60	2N2754	7000n	13u	20ms	12	12	5.0	20	17	17	.07		N	Si	175C	T1	B		
61	2N2755	7.0u	13u	200	4.0	20	20	10	10	10	.07		N	Si	175C	T1b	B		
62	2N2756	7.0u	13u	200	4.0	20	20	10	10	10	.07		N	Si	175C	T1b	B		
63	2N2769	7000n	13u	20ms	12	12	5.0	20	17	17	.07		N	Si	175C	T33	A		
64	2N2770	7000n	13u	20ms	12	12	5.0	20	17	17	.07		N	Si	175C	T33	A		
65	2N2771	7000n	13u	20ms	12	12	5.0	20	17	17	.07		N	Si	175C	T33	A		
66	2N2772	7000n	13u	20ms	12	12	5.0	20	17	17	.07		N	Si	175C	T33	A		
67	2N2773	7.0u	13u	200	4.0	20	20	10	10	10	.07		N	Si	175C	T33	A		
68	2N2774	7.0u	13u	200	4.0	20	20	10	10	10	.07		N	Si	175C	T33	A		
69	JAN2N5926	7.0u	4.0u	6.0u	300	#	4.0	90	5.0	#			N	Si	200A	T69d	A		
70	JAN2N5927	7.0u	4.0u	6.0u	300	#	4.0	120	5.0	#			N	Si	200A	T69c	B		
71	2N5928	7.0u	3.0u	200	4.0	100	100	2.0	100	10	#		N	Si	200J	TO114	A		
72	151-04SPC	7.0u	14n	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
73	151-08SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
74	151-08SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
75	151-10SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
76	151-12SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
77	151-14SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
78	151-16SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
79	151-18SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
80	151-20SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
81	151-22SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-A	Si	150J	T1	B		
82	151-24	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-F	Si	150J	T1	B		
83	151-26SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-F	Si	150J	T1	B		
84	151-28SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-F	Si	150J	T1	B		
85	151-30SPC	7.0u	14u	100	4.0	1.5m	11	11	11	11	870m		N-F	Si	150J	T1	B		
86	152-04SPC	7.0u	14u	100	4.0	1.5m	18	18	18	18	870m		N-A	Si	150J	T1	B		
87	152-06SPC	7.0																	