

# 12. SWITCHING TRANSISTORS

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

LINE No.	3 TYPE No.	2 fab (Hz)	1 MAX RISE TIME tr (s)	MAX DELAY TIME td (s)	MAX STORE TIME ts (s)	MAX FALL TIME tf (s)	MAX. P <sub>c</sub> 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	#	L E O A D E
								V <sub>cb</sub> (V)	I <sub>e</sub> (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	.02Mf	6000n∅				700m∅	4.0 ∅	2 ∅	10 ∆			N	Si	150J	T1		B	
8	2N1015A	.02Mf	6000n∅			20u∅	700m∅	4.0 ∅	2 ∅	10 ∆			N	Si	150J	T1		B	
9	2N1015B	.02Mf	6000n∅			20u∅	700m∅	4.0 ∅	2 ∅	10 ∆			N	Si	150J	T1		B	
10	2N1015D	.02Mf	6000n∅			20u∅	700m∅	4.0 ∅	2 ∅	10 ∆			N	Si	150J	T1		B	
11	2N1015E	.02Mf	6000n∅			20u∅	700m∅	4.0 ∅	2 ∅	10 ∆			N	Si	150J	T1		B	
12	2N1015F	.02Mf	6000n∅			20u∅	700m∅	4.0 ∅	2 ∅	10 ∆			N	Si	150J	T1		B	
13	2N1015F	.02Mf	6000n∅			20u∅	700m∅	4.0 ∅	2 ∅	10 ∆			N	Si	150J	T1		B	
14	2N1016	20kT	6.0u∅				150 * 10u∅	4.0 ∅	5.0 ∅	10 ∆	500m		N-F	Si	150J	T1		B	
15	2N1016A	20kT	6.0u∅				150 * 10u∅	4.0 ∅	5.0 ∅	10 ∆	500m		N-F	Si	150J	T1		B	
16	2N1016B	20kT	6.0u∅				150 * 10u∅	4.0 ∅	5.0 ∅	10 ∆	500m		N-F	Si	150J	T1		B	
17	2N1016C	20kT	6.0u∅				150 * 10u∅	4.0 ∅	5.0 ∅	10 ∆	500m		N-F	Si	150J	T1		B	
18	2N1016D	20kT	6.0u∅				150 * 10u∅	4.0 ∅	5.0 ∅	10 ∆	500m		N-F	Si	150J	T1		B	
19	2N1016E	20kT	6.0u∅				150 * 10u∅	4.0 ∅	5.0 ∅	10 ∆	500m		N-F	Si	150J	T1		B	
20	2N1016F	20kT	6.0u∅				150 * 10u∅	4.0 ∅	5.0 ∅	10 ∆	500m		N-F	Si	150J	T1		B	
21	2N2584	30kTΔ	6.0u	6.0u	5.0u	5.0u	150 ∅	5.0 ∅	5.0m	10 ∆	.14		N	Si	150C	TO36		C∅	
22	2N2585	30kTΔ	6.0u	6.0u	5.0u	5.0u	150 ∅	5.0 ∅	10m	10 ∆	1.0		N	Si	150C	TO36		C∅	
23	2N3079	.03MfΔ	6000n	6.0u	5.0u	5.0u	150 ∅	5.0 ∅	5.0m∅	10 ∆	.14		N	Si	150C	TO36		C∅	
24	2N3080	.03MfΔ	6000n	6.0u	5.0u	5.0u	150 ∅	5.0 ∅	5.0m∅	10 ∆	.14		N	Si	150C	TO36		C∅	
25	163-04	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
26	163-05	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
27	163-06	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
28	163-07	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
29	163-08	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
30	163-09	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
31	163-10	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
32	163-12	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
33	163-14	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
34	163-16	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
35	163-18	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
36	163-20	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	15 ∆	220m	1.5n∅	N-A	Si	175A	T33		A∅	
37	164-04	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
38	164-05	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
39	164-06	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
40	164-07	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
41	164-08	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
42	164-09	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
43	164-10	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
44	164-12	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
45	164-14	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
46	164-16	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
47	164-18	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
48	164-20	250kΔ	6.0u∅	5.0u	7.0u	7.0u	200 ∅	4.0 ∅	5.0 ∅	25 ∆	200m	1.5n∅	N-A	Si	175A	T33		A∅	
49	DTG1010	450kΔ	6.0u	1.6u	7.0u	7.0u	106 ∅	2.0	4.0	25 ∆	160m		P	Ge	110J	TO3		C∅	
50	DTG1110	450kΔ	6.0u	1.6u	7.0u	7.0u	106 ∅	2.0	4.0	25 ∆	160m		P	Ge	110J	TO3		C∅	
51	DTG1110B	450kΔ	6000n	1.6u	7.0u	7.0u	105	2.0	4.0	25 ∆	160m		P-D	Ge	110	TO3		C∅	
52	2N3667	500kΔ	6.0u∅	1.6u	1.4u	1.2u∅	117 ∅	3.0 ∅	8.0 ∅	15 # ∆	160m		N	Si	200J	TO3		C∅	
53	DTG1210A	700kΔ	6000n	1.6u	1.4u	1.4u	105	2.0	1.0	35	160m		P-D	Si	110	TO3		C∅	
54	2N5559	.80MΔ	8.0u∅		8u∅	117 ∅	107 ∅	2.0 ∅	4 ∅	20 ∆	.19		N	Si	200J	TO3		C∅	
55	JAN2N3055	4.0MΔ	6.0u∅	12u∅	11u∅	11u∅	117 ∅	4.0 ∅	500m∅	40 ∆ #	200m #	400p\$ 700p∅ 20p∅	N	Si	200J	TO3		C∅	
56	2N557	6.5u	7000n∅	2.5u∅	100m	200m∅	100m	12 ∅	1.0m∅	20 ∆	.07		N-A	Ge	85J	TO5		A	
57	2N2751	7000n∅	13u∅		20m∅	12 ∅	5.0 ∅	20 ∆	10 ∆	.07			N	Si	175C	T1		B	
58	2N2752	7000n∅	13u∅		20m∅	12 ∅	5.0 ∅	20 ∆	10 ∆	.07			N	Si	175C	T1		B	
59	2N2753	7000n∅	13u∅		20m∅	12 ∅	5.0 ∅	20 ∆	10 ∆	.07			N	Si	175C	T1		B	
60	2N2754	7000n∅	13u∅		20m∅	12 ∅	5.0 ∅	20 ∆	10 ∆	.07			N	Si	175C	T1		B	
61	2N2755	7.0u∅	13u∅	13u∅	200 ∅	4.0 ∅	20 ∅	10 ∆	20 ∅	10 ∆			N	Si	175C	T1b		B	
62	2N2756	7.0u∅	13u∅	13u∅	200 ∅	4.0 ∅	20 ∅	10 ∆	20 ∅	10 ∆			N	Si	175C	T1b		B	
63	2N2769	7000n∅	13u∅		20m∅	12 ∅	5.0 ∅	20 ∆	10 ∆	.07			N	Si	175C	T33		A	
64	2N2770	7000n∅	13u∅		20m∅	12 ∅	5.0 ∅	20 ∆	10 ∆	.07			N	Si	175C	T33		A	
65	2N2771	7000n∅	13u∅		20m∅	12 ∅	5.0 ∅	20 ∆	10 ∆	.07			N	Si	175C	T33		A	
66	2N2772	7000n∅	13u∅		20m∅	12 ∅	5.0 ∅	20 ∆	10 ∆	.07			N	Si	175C	T33		A	
67	2N2773	7.0u∅	13u∅	13u∅	200 ∅	4.0 ∅	20 ∅	10 ∆	20 ∅	10 ∆			N	Si	175C	T33		A	
68	2N2774	7.0u∅	13u∅	13u∅	200 ∅	4.0 ∅	20 ∅	10 ∆	20 ∅	10 ∆			N	Si	175C	T33		A	
69	JAN2N5926	7.0u∅	4.0u	6.0u∅	300 ∅ #	4.0 ∅	90 ∅	5.0 ∆ #	20 ∅	10 ∆			N	Si	200A	T69d		A	
70	JAN2N5927	7.0u∅	4.0u	6.0u∅	300 ∅ #	4.0 ∅	120 ∅	5.0 ∆ #	20 ∅	10 ∆			N	Si	200A	T69c		B	
71	2N5928	7.0u	3.0u	200 ∅	200 ∅ #	4.0 ∅	100 ∅	2.0 ∆ #	100 ∅	10 ∆ #			N	Si	200J	TO114		A∅	
72	151-04SPC	7.0u∅	14n∅	100 ∅	100 ∅	4.0 ∅	1.5m∅	11 ∆	11 ∆	870m			N-A	Si	150J	T1		B	
73	151-08SPC	7.0u∅	14n∅	100 ∅	100 ∅	4.0 ∅	1.5m∅	11 ∆	11 ∆	870m			N-A	Si	150J	T1		B	
74	151-08SPC	7.0u∅	14n∅	100 ∅	100 ∅	4.0 ∅	1.5m∅	11 ∆	11 ∆	870m			N-A	Si	150J	T1		B	
75	151-10SPC	7.0u∅	14n∅	100 ∅	100 ∅	4.0 ∅	1.5m∅	11 ∆	11 ∆	870m			N-A	Si	150J	T1		B	
76	151-12SPC	7.0u∅	14n∅	100 ∅	100 ∅	4.0 ∅	1.5m∅												