

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 _{bb} 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 | Ø |
| 2 | 164-24SPC | | 6.0u | | | 12u | 200 | 4.0 | 5.0 | 25 | 200m | | | N-A | Si | 175J | T33 | A | Ø |
| 3 | 164-26SPC | | 6.0u | | | 12u | 200 | 4.0 | 5.0 | 25 | 200m | | | N | Si | 175J | T33 | A | Ø |
| 4 | 164-28SPC | | 6.0u | | | 12u | 200 | 4.0 | 5.0 | 25 | 200m | | | N | Si | 175J | T33 | A | Ø |
| 5 | 164-30SPC | | 6.0u | | | 12u | 200 | 4.0 | 5.0 | 25 | 200m | | | N | Si | 175J | T33 | A | Ø |
| 6 | 3N46 | 12kt | 6000n | | | 1.2u | 75 | 2.0 | 10m | 27 | | | P-A | Ge | 100J | TO15 | GB | | |
| 7 | 2N1015 | .02Mf | 6000n | | 20u | | 700m | 4.0 | 2 | 10 | | | N | Si | 150J | T1 | B | B | |
| 8 | 2N1015A | .02Mf | 6000n | | 20u | | 700m | 4.0 | 2 | 10 | | | N | Si | 150J | T1 | B | B | |
| 9 | 2N1015B | .02Mf | 6000n | | 20u | | 700m | 4.0 | 2 | 10 | | | N | Si | 150J | T1 | B | B | |
| 10 | 2N1015D | .02Mf | 6000n | | 20u | | 700m | 4.0 | 2 | 10 | | | N | Si | 150J | T1 | B | B | |
| 11 | 2N1015E | .02Mf | 6000n | | 20u | | 700m | 4.0 | 2 | 10 | | | N | Si | 150J | T1 | B | B | |
| 12 | 2N1015F | .02Mf | 6000n | | 20u | | 700m | 4.0 | 2 | 10 | | | N | Si | 150J | T1 | B | B | |
| 13 | 2N1015F | .02Mf | 6000n | | 20u | | 700m | 4.0 | 2 | 10 | | | N | Si | 150J | T1 | B | B | |
| 14 | 2N1018 | 20kt | 6.0u | | | 10u | 150 | 4.0 | 5.0 | 10 | 500m | | N-F | Si | 150J | T1 | B | B | |
| 15 | 2N1018A | 20kt | 6.0u | | | 10u | 150 | 4.0 | 5.0 | 10 | 500m | | N-F | Si | 150J | T1 | B | B | |
| 16 | 2N1018B | 20kt | 6.0u | | | 10u | 150 | 4.0 | 5.0 | 10 | 500m | | N-F | Si | 150J | T1 | B | B | |
| 17 | 2N1018C | 20kt | 6.0u | | | 10u | 150 | 4.0 | 5.0 | 10 | 500m | | N-F | Si | 150J | T1 | B | B | |
| 18 | 2N1018D | 20kt | 6.0u | | | 10u | 150 | 4.0 | 5.0 | 10 | 500m | | N-F | Si | 150J | T1 | B | B | |
| 19 | 2N1018E | 20kt | 6.0u | | | 10u | 150 | 4.0 | 5.0 | 10 | 500m | | N-F | Si | 150J | T1 | B | B | |
| 20 | 2N1018F | 20kt | 6.0u | | | 10u | 150 | 4.0 | 5.0 | 10 | 500m | | N-F | Si | 150J | T1 | B | B | |
| 21 | 2N2584 | 30kt | 6.0u | 6.0u | 5.0u | 10u | 150 | 5.0 | 5.0m | 10 | 14 | | N | Si | 150C | TO36 | | CØ | |
| 22 | 2N2585 | 30kt | 6.0u | 6.0u | 5.0u | 10u | 150 | 5.0 | 10m | 10 | 1.0 | | N | Si | 150C | TO36 | | CØ | |
| 23 | 2N3079 | .03Mf | 6000n | 6.0u | 5.0u | 10u | 150 | 5.0 | 5.0m | 10 | 14 | | N | Si | 150C | TO36 | | CØ | |
| 24 | 2N3080 | .03Mf | 6000n | 6.0u | 5.0u | 10u | 150 | 5.0 | 5.0m | 10 | 14 | | N | Si | 150C | TO36 | | CØ | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 34 | 163-18 | 250k | 6.0u | 5.0u | 7.0u | 200 | 4.0 | 5.0 | 15 | 220m | 1.5n | | N-A | Si | 175A | T33 | A | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 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 | Ø | |
| 49 | DTG1010 | 450k | 6.0u | 1.6u | 1.6u | 700nt | 106 | 105 | 2.0 | 4.0 | 25 | 160m | P | Ge | 110J | TO3 | | CØ | |
| 50 | DTG1110 | 450k | 6.0u | 1.6u | 1.6u | 700nt | 106 | 105 | 2.0 | 4.0 | 25 | 160m | P | Ge | 110J | TO3 | | CØ | |
| 51 | DTG1110B | 450k | 6000n | 1.6u | 1.4u | 105 | 105 | 2.0 | 4.0 | 25 | 160m | | P-D | Ge | 110J | TO3 | | CØ | |
| 52 | 2N3667 | 500k | 6.0u | 1.2u | 1.1u | 117 | 3.0 | 8.0 | 15 | 15 | 160m | | N | Si | 200J | TO3 | | CØ | |
| 53 | DTG1210A | 700k | 6000n | 1.6u | 1.4u | 105 | 2.0 | 1.0 | 35 | 35 | 160m | | P-D | Ge | 110J | TO3 | | CØ | |
| 54 | 2N5559 | .80M | 6.0u | 1.6u | 1.4u | 8u | 100 | 2.0 | 4.0 | 20 | 19 | | N | Si | 200J | TO3 | | CØ | |
| 55 | JAN2N3055 | 4.0M | 6.0u | 1.2u | 1.1u | 117 | 4.0 | 500m | 40 | 40 | 200m | 400p | N | Si | 200J | TO3 | | CØ | |
| 56 | 2N557 | 6.5u | 2.5u | 100m | 200m | 12 | 1.0m | 20 | 20 | 2.5 | 20p | | N-A | Ge | 85J | TO5 | A | B | |
| 57 | 2N2751 | 7000n | 13u | 20ms | 12 | 20 | 12 | 5.0 | 20 | 10 | .07 | | N | Si | 175C | T1 | B | B | |
| 58 | 2N2752 | 7000n | 13u | 20ms | 12 | 20 | 12 | 5.0 | 20 | 10 | .07 | | N | Si | 175C | T1 | B | B | |
| 59 | 2N2753 | 7000n | 13u | 20ms | 12 | 20 | 12 | 5.0 | 20 | 10 | .07 | | N | Si | 175C | T1 | B | B | |
| 60 | 2N2754 | 7000n | 13u | 20ms | 12 | 20 | 12 | 5.0 | 20 | 10 | .07 | | N | Si | 175C | T1 | B | B | |
| 61 | 2N2755 | 7.0u | 13u | 200 | 4.0 | 20 | 20 | 10 | 10 | 10 | .07 | | N | Si | 175C | T1b | B | B | |
| 62 | 2N2756 | 7.0u | 13u | 200 | 4.0 | 20 | 20 | 10 | 10 | 10 | .07 | | N | Si | 175C | T1b | B | B | |
| 63 | 2N2769 | 7000n | 13u | 20ms | 12 | 20 | 12 | 5.0 | 20 | 10 | .07 | | N | Si | 175C | T33 | A | A | |
| 64 | 2N2770 | 7000n | 13u | 20ms | 12 | 20 | 12 | 5.0 | 20 | 10 | .07 | | N | Si | 175C | T33 | A | A | |
| 65 | 2N2771 | 7000n | 13u | 20ms | 12 | 20 | 12 | 5.0 | 20 | 10 | .07 | | N | Si | 175C | T33 | A | A | |
| 66 | 2N2772 | 7000n | 13u | 20ms | 12 | 20 | 12 | 5.0 | 20 | 10 | .07 | | N | Si | 175C | T33 | A | A | |
| 67 | 2N2773 | 7.0u | 13u | 200 | 4.0 | 20 | 20 | 10 | 10 | 10 | .07 | | N | Si | 175C | T33 | A | A | |
| 68 | 2N2774 | 7.0u | 13u | 200 | 4.0 | 20 | 20 | 10 | 10 | 10 | .07 | | N | Si | 175C | T33 | A | A | |
| 69 | JAN2N5926 | 7.0u | 4.0u | 6.0u | 300 | 300 | 4.0 | 90 | 5.0 | 40 | | | N | Si | 200A | T69d | A | A | |
| 70 | JAN2N5927 | 7.0u | 4.0u | 6.0u | 300 | 300 | 4.0 | 120 | 5.0 | 40 | | | N | Si | 200A | T69c | B | A | |
| 71 | 2N5928 | 7.0u | 3.0u | 200 | 4.0 | 100 | 2.0 | 100 | 10 | 10 | | | N | Si | 200J | TO114 | A | Ø | |
| 72 | 151-04SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 73 | 151-08SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 74 | 151-08SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 75 | 151-10SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 76 | 151-12SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 77 | 151-14SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 78 | 151-16SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 79 | 151-18SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 80 | 151-20SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 81 | 151-22SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-A | Si | 150J | T1 | B | B | |
| 82 | 151-24 | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-F | Si | 150J | T1 | B | B | |
| 83 | 151-26SPC | 7.0u | 14u | 100 | 4.0 | 1.5m | 11 | 11 | 11 | 870m | | | N-F | Si | 150J | T1 | B | | |