

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-PNP N-NPN | M A T | MAX. TEMP (°C) | DWG # Y200 s/A TO200 Ser. | L E A D E |
|----------|-----------|---------|----------------------|-----------------------|-----------------------|----------------------|--------------------------------|---------|--------|------|--------------------|---------|----------------|-----------------------|-------|----------------|---------------------------|-----------|
| | | | | | | | | Vcb (V) | Ic (A) | hFE | | | | | | | | |
| 1 | 1788-1020 | 30M\$Δ | 450n | | 550n | 350n | 100n | 2.5 | 20 | 20 | 20 | 800p | N-E | Si | 200J | T063 | A | |
| 2 | 1788-1220 | 30M\$Δ | 450n | | 550n | 350n | 100 | 2.5 | 20 | 20 | 20 | 800p | N-E | Si | 200J | T063 | A | |
| 3 | 1788-1420 | 30M\$Δ | 450n | | 550n | 350n | 100 | 2.5 | 20 | 20 | 20 | 800p | N-E | Si | 200J | T063 | A | |
| 4 | 1788-1620 | 30M\$Δ | 450n | | 550n | 350n | 100 | 2.5 | 20 | 20 | 20 | 800p | N-E | Si | 200J | T063 | A | |
| 5 | 1788-1820 | 30M\$Δ | 450n | | 550n | 350n | 100 | 2.5 | 20 | 20 | 20 | 800p | N-E | Si | 200J | T063 | A | |
| 6 | GSDU7530 | 30M\$Δ | 0.45u | .05u | 1.2u | 0.3u | 125 | 5.0 | 7.5 | 10 | 150p | 150p | N | Si | 200J | T03 | C | |
| 7 | GSDU7535 | 30M\$Δ | 0.45u | .05u | 1.2u | 0.3u | 125 | 5.0 | 7.5 | 10 | 150p | 150p | N | Si | 200J | T03 | C | |
| 8 | GSDU7540 | 30M\$Δ | 0.45u | .05u | 1.2u | 0.3u | 125 | 5.0 | 7.5 | 10 | 150p | 150p | N | Si | 200J | T03 | C | |
| 9 | UPT1021 | 50M\$ | 450nt | | 350nt | 2.5 | 2.5 | 5.0 | 15 | 15 | 15 | 100m | N-PL | Si | 200J | T066 | C | |
| 10 | UPT1031 | 50M\$ | 450nt | | 350nt | 3.5 | 3.5 | 5.0 | 15 | 15 | 15 | 133m | N-PL | Si | 200J | T03 | C | |
| 11 | 2N1042 | 250k\$Δ | 480nt | 200nt | 290nt | 2.1ut | 1.1 | 1.0 | 3.0 | 60 | 250m | 100p | P-A | Ge | 100S | T28 | A | |
| 12 | 2N1043 | 250k\$Δ | 480nt | 200nt | 290nt | 2.1ut | 1.1 | 1.0 | 3.0 | 60 | 250m | 100p | P-A | Ge | 100S | T28 | A | |
| 13 | 2N1044 | 250k\$Δ | 480nt | 200nt | 290nt | 2.1ut | 1.1 | 1.0 | 3.0 | 60 | 250m | 100p | P-A | Ge | 100S | T28 | A | |
| 14 | 2N1045 | 250k\$Δ | 480nt | 200nt | 290nt | 2.1ut | 1.1 | 1.0 | 3.0 | 60 | 250m | 100p | P-A | Ge | 100S | T28 | A | |
| 15 | AS26-RT | 4.0M\$Δ | 490n | 90n | 1.3u | 730n | 150m | 1.0 | 10m | 45 | 20 | 16p | P-A | Ge | 85J | T05 | A\$ | |
| 16 | 2N545 | | 500n | | 800n | 5 | 5 | 6.0 | 500m | 80 | 10 | 100p | N | Si | 200S | T05 | A | |
| 17 | JAN2N545 | | 500n | | 800n | 5 | 5 | 6.0 | 500m | 15 | 10 | 100p | N | Si | 175S | T05 | A | |
| 18 | 2N546 | | 500n | | 800n | 5 | 5 | 6.0 | 500m | 80 | 6.0 | 100p | N | Si | 200S | T05 | A | |
| 19 | 2N672 | | 500n | 400n | 600n | 300m | 1.0 | 5.0 | 10 | 60 | 200m | 100p | N-DM | Si | 85J | R2 | A | |
| 20 | 2N673 | | 500n | 400n | 600n | 1.0 | 1.0 | 5.0 | 10 | 60 | 200m | 100p | N-DM | Si | 85J | R2 | A | |
| 21 | JAN2N1173 | | 500n | | 2.0u | 250m | 1.0 | 1.0 | 10m | 200 | 7.5 | 25p | N | Ge | 100S | T029 | A | |
| 22 | JAN2N1174 | | 500n | | 2.0u | 250m | 1.0 | 1.0 | 10m | 200 | 7.5 | 25p | N | Ge | 100S | T029 | A | |
| 23 | 2SA1008 | | .50u | 1.5u | 1.5u | 50u | 1.5 | -5 | -1 | 40 | 40 | 40 | PE | Si | 150J | Y220a | X | |
| 24 | 2SA1010 | | .50u | 1.5u | 1.5u | 50u | 1.5 | -5 | -3 | 40 | 40 | 40 | PE | Si | 150J | Y220a | X | |
| 25 | 2SB601 | | .50u | 1.0u | 1.0u | 1.5 | 1.5 | -2 | -3 | 2.0k | 40 | 40 | PE | Si | 150J | Y220a | X | |
| 26 | 2SC1485 | | 500nt | 3.0ut | 1.0ut | 350m | 4.0 | 5.0 | 10m | 90 | 20 | 20 | N-DM | Si | 175J | T018 | A | |
| 27 | 2SC1610 | | 500nt | 1.5u | 2.0u | 100 | 5.0 | 5.0 | 30 | 30 | 30 | 20 | N-EM | Si | 175J | T03 | C | |
| 28 | 2SC1672 | | 500nt | 1.5u | 2.0u | 120 | 2.0 | 13 | 20 | 20 | 77m | 20 | N-EM | Si | 175J | T03 | C | |
| 29 | 2SC2331 | | .50u | 1.5u | 50u | 1.5 | 5.0 | 1.0 | 40 | 40 | 40 | 40 | NE | Si | 150J | Y220a | X | |
| 30 | 2SC2334 | | .50u | 1.5u | 50u | 1.5 | 5.0 | 3.0 | 40 | 40 | 40 | 40 | NE | Si | 150J | Y220a | X | |
| 31 | 2SD560 | | 500nt | 2.0u | 1.5 | 2.0 | 2.0 | 5.0 | 500 | 40 | 400m | 400m | NE | Si | 150J | Y220b | D | |
| 32 | 2SD985 | | .50u | 1.0u | 1.0u | 1.0 | 2.0 | 1.0 | 2.0k | 40 | 40 | 40 | N | Si | 150J | Y126 | X | |
| 33 | 2SD986 | | .50u | 1.0u | 1.0u | 1.0 | 2.0 | 1.0 | 2.0k | 40 | 40 | 40 | N | Si | 150J | Y126 | X | |
| 34 | BU326 | | .50u | 3.5u | 1.5u | 60 | 6.0 | 5.0 | .60 | 40 | 40 | 40 | N-DPL | Si | 150J | T03 | C | |
| 35 | BU326A | | .50u | 3.5u | 1.5u | 60 | 6.0 | 5.0 | .60 | 40 | 40 | 40 | N-DPL | Si | 150J | T03 | C | |
| 36 | BUR11 | | .50u | 1.0u | .30u | 175 | 5.0 | 5.0 | 10 | 15 | 15 | 15 | NPE | Si | 200J | T063 | A | |
| 37 | ESM1503 | | 500nt | 2.5ut | 600nt | 60 | 6.0 | 5.0 | 10 | 60 | 1.0 | 1.0 | N-DM | Si | 115J | T03 | C | |
| 38 | ET8000 | | 500n | 600n | 2.5u | 400n | 125 | 5.0 | 10 | 60 | 200m | 200m | N-DM | Si | 150J | T03 | C | |
| 39 | ET8001 | | 500n | 600n | 2.5u | 400n | 125 | 5.0 | 10 | 60 | 200m | 200m | N-DM | Si | 150J | T03 | C | |
| 40 | ET8002 | | 500n | 600n | 2.5u | 400n | 125 | 5.0 | 10 | 60 | 200m | 200m | N-DM | Si | 150J | T03 | C | |
| 41 | ET8251 | | 500n | 600n | 2.5u | 400n | 125 | 5.0 | 5.0 | 100 | 200m | 200m | N-DM | Si | 150J | T03 | C | |
| 42 | ET8252 | | 500n | 600n | 2.5u | 400n | 125 | 5.0 | 5.0 | 100 | 200m | 200m | N-DM | Si | 150J | T03 | C | |
| 43 | ET8253 | | 500n | 600n | 2.5u | 400n | 125 | 5.0 | 5.0 | 100 | 200m | 200m | N-DM | Si | 150J | T03 | C | |
| 44 | GT8000 | | 500n | 3.0u | 1.0u | 90 | 9.0 | 5.0 | 10 | 50 | 200m | 200m | N | Si | 150J | T03 | C | |
| 45 | GT8001 | | 500n | 3.0u | 1.0u | 90 | 9.0 | 5.0 | 10 | 50 | 200m | 200m | N | Si | 150J | T03 | C | |
| 46 | GT8002 | | 500n | 3.0u | 1.0u | 90 | 9.0 | 5.0 | 10 | 50 | 200m | 200m | N | Si | 150J | T03 | C | |
| 47 | ID18000 | | 500n | 3.0u | 1.0u | 90 | 9.0 | 5.0 | 10 | 50 | 200m | 200m | N | Si | 150J | T03 | C | |
| 48 | ID18001 | | 500n | 3.0u | 1.0u | 90 | 9.0 | 5.0 | 10 | 50 | 200m | 200m | N | Si | 150J | T03 | C | |
| 49 | ID18002 | | 500n | 3.0u | 1.0u | 90 | 9.0 | 5.0 | 10 | 50 | 200m | 200m | N | Si | 150J | T03 | C | |
| 50 | MJ6502 | | 500n | 100n | 2.0u | 500n | 175 | 5.0 | 2.0 | 15 | 150p | 100p | P | Si | 200S | T03 | C | |
| 51 | MJ6503 | | 500n | 100n | 2.0u | 500n | 175 | 5.0 | 2.0 | 15 | 150p | 100p | P | Si | 200S | T03 | C | |
| 52 | MJ10000 | | 500n | 200n | 3.0u | 1.8u | 175 | 5.0 | 10 | 40 | 150m | 325p | N | Si | 200J | T03 | KF | |
| 53 | MJ10001 | | 500n | 200n | 3.0u | 1.8u | 175 | 5.0 | 10 | 40 | 150m | 325p | N | Si | 200J | T03 | KF | |
| 54 | MJ10002 | | 500n | 100n | 2.5u | 1.0u | 150 | 5.0 | 5.0 | 30 | 290m | 275p | N | Si | 200J | T03 | KF | |
| 55 | MJ10003 | | 500n | 100n | 2.5u | 1.0u | 150 | 5.0 | 5.0 | 30 | 290m | 275p | N | Si | 200J | T03 | KF | |
| 56 | MJ10004 | | 500n | 200n | 1.2u | 350n | 175 | 5.0 | 10 | 40 | 150m | 325p | N | Si | 200J | T03 | KF | |
| 57 | MJ10005 | | 500n | 200n | 1.2u | 350n | 175 | 5.0 | 10 | 40 | 150m | 325p | N | Si | 200J | T03 | KF | |
| 58 | MJ13014 | | 500n | 100n | 2.0u | 500n | 150 | 5.0 | 2.5 | 12 | 500m | 350p | N | Si | 200J | T03 | C | |
| 59 | MJ13015 | | 500n | 100n | 2.0u | 500n | 150 | 5.0 | 2.5 | 12 | 500m | 350p | N | Si | 200J | T03 | C | |
| 60 | MJ13080 | | .50u | 80m | 1.5u | 50u | 150 | .30 | 5.0 | 8.0 | 40 | 300p | N | Si | 200J | T03 | C | |
| 61 | MJ13081 | | .50u | 80m | 1.5u | 50u | 150 | .30 | 5.0 | 8.0 | 40 | 300p | N | Si | 200J | T03 | C | |
| 62 | MJE5740 | | 0.5u | .04u | 8.0u | 2.0u | 80 | 5.0 | 4.0 | 200 | 200 | 200 | N | Si | 200J | B61 | X | |
| 63 | MJE5741 | | 0.5u | .04u | 8.0u | 2.0u | 80 | 5.0 | 4.0 | 200 | 200 | 200 | N | Si | 200J | B61 | X | |
| 64 | MJE5742 | | 0.5u | .04u | 8.0u | 2.0u | 80 | 5.0 | 4.0 | 200 | 200 | 200 | N | Si | 200J | F56 | X | |
| 65 | MJE5850 | | 500n | 100n | 2.0u | 500n | 80 | 5.0 | 5.0 | 5 | 270p | 270p | P | Si | 150J | Y220b | X | |
| 66 | MJE5851 | | 500n | 100n | 2.0u | 500n | 80 | 5.0 | 5.0 | 5 | 270p | 270p | P | Si | 150J | Y220b | X | |
| 67 | MJE5852 | | 500n | 100n | 2.0u | 500n | 80 | 5.0 | 5.0 | 5 | 270p | 270p | P | Si | 150J | Y220b | X | |
| 68 | TIP562 | | 500nt | 50nt | 1.2ut | 300nt | 100 | 4.0 | 10 | 8.0 | 120m | 120m | N | Si | 200J | T03 | C | |
| 69 | TIP563 | | 500nt | 50nt | 1.2ut | 300nt | 100 | 4.0 | 10 | 8.0 | 120m | 120m | N | Si | 200J | T03 | C | |
| 70 | CMC1530A | 10k# | 500n | | 8.0u | 1.0u | 100 | 5.0 | 8.0 | 150 | 400m | 400m | N-D | Si | 200J | T03 | KF | |
| 71 | CMC1535A | 10k# | 500n | | 8.0u | 1.0u | 100 | 5.0 | 8.0 | 150 | 400m | 400m | N-D | Si | 200J | T03 | KF | |
| 72 | CMC1540A | 10k# | 500n | | 8.0u | 1.0u | 100 | 5.0 | 8.0 | 150 | 400m | 400m | N-D | Si | 200J | T03 | KF | |
| 73 | CMC2510A | 10k# | 500n | | 6.0u | 1.0u | 125 | 5.0 | 6.0 | 100 | 400m | 400m | N-DE | Si | 175J | T03 | KF | |
| 74 | CMC2512A | 10k# | 500n | | 6.0u | 1.0u | 125 | 5.0 | 6.0 | 100 | 400m | 400m | N-DE | Si | 175J | T03 | KF | |
| 75 | CMC2515A | 10k# | 500n | | 6.0u | 1.0u | 125 | 5.0 | 6.0 | 100 | 400m | 400m | N-DE | Si | 175J | T03 | KF | |
| 76 | CMC2530A | 10k# | 500n | | 8.0u | 1.0u | 125 | 5.0 | 12 | 150 | 200m | 200m | N-D | Si | 150J | T03 | KF | |
| 77 | CMC2535A | 10k# | 500n | | 8.0u | 1.0u | 125 | 5.0 | 12 | 150 | 200m | 200m | N-D | Si | 150J | T03 | KF | |
| 78 | CMC2540A | 10k# | 500n | | 8.0u | 1.0u | 125 | 5.0 | 12 | 150 | 200m | 200m | N-D | Si | 150J | T03 | KF | |
| 79 | CMC4010A | 10k# | 500n | | 6.0u | 1.0u | 150 | 5.0 | 10 | 100 | 400m | 400m | N-DE | Si | 175J | T03 | KF | |
| 80 | CMC4012A | 10k# | 500n | | 6.0u | 1.0u | 150 | 5.0 | 10 | 100 | 400m | 400m | N-DE | Si | 175J | T03 | KF | |
| 81 | CMC4015A | 10k# | 500n | | 6.0u | 1.0u | 150 | 5.0 | 10 | 100 | 400m | 400m | N-DE | Si | 175J | T03 | KF | |
| 82 | CMC4030A | 10k# | 500n | | 8.0u | 1.0u | 150 | 5.0 | 10 | 100 | 100m | 100m | N-D | Si | 175J | T03 | KF | |
| 83 | CMC4035A | 10k# | 500n | | 8.0u | 1.0u | 150 | 5.0 | 10 | 100 | 100m | 100m | N-D | Si | 175J | T03 | KF | |
| 84 | CMC4040A | | | | | | | | | | | | | | | | | |