

5. SILICON NPN - LOW POWER TRANSISTORS

IN ORDER OF (1) MAX COLLECTOR DISSIPATION
(2) f_{ab} & (3) TYPE No.

| LINE No. | TYPE No. | 1 MAX. COLL. DISS. @ 25°C (W) | 2 DERATE fab (Hz) | T FREE AIR W/C | M E A M | ABS MAX RATINGS @ 25°C | | | | MAX. I _{cb0} @ V _{cb} (A) | TYPICAL 'h' PARAMETERS | | | COMMON EMITTER | | | Cob (F) | STRUC-TURE | DWG # Y200 s/a TO200 Ser. | L C O A D E | | |
|----------|------------|---------------------------------|---------------------|------------------|---------------|------------------------|----------------------|----------------------|--------------------|---|------------------------|--------------------|-----------------|------------------------|---------------------|-----------------|---------|------------|---------------------------|-------------|-----|---|
| | | | | | | V _{cb0} (V) | V _{ceo} (V) | V _{ebo} (V) | I _c (A) | | V _{cb} (V) | I _e (A) | h _{fe} | h _{oe} (mhos) | h _{ie} (Ω) | h _{re} | | | | | | |
| 1# | ZTX338A | 750m | 200M | 6.8m | SS | 30 | 25 | 5.0 | 800m | 100m | 1.0 | 100m | 160 | † | | | 12p | PL† | B58 | A | | |
| 2# | ZTX338AK | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 100 | †Δ | | | 12p | PL | B58 | A | | |
| 3# | ZTX338AL | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 100 | †Δ | | | 12p | PL | B58 | A | | |
| 4# | ZTX338AM | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 100 | †Δ | | | 12p | PL | B58 | A | | |
| 5# | ZTX338B | 750m | 200M | 6.8m | SS | 30 | 25 | 5.0 | 800m | 100m | 1.0 | 100m | 250 | † | | | 12p | PL† | B58 | A | | |
| 6# | ZTX338BK | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 160 | †Δ | | | 12p | PL | B58 | A | | |
| 7# | ZTX338BL | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 160 | †Δ | | | 12p | PL | B58 | A | | |
| 8# | ZTX338BM | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 160 | †Δ | | | 12p | PL | B58 | A | | |
| 9# | ZTX338C | 750m | 200M | 6.8m | SS | 30 | 25 | 5.0 | 800m | 100m | 1.0 | 100m | 400 | † | | | 12p | PL† | B58 | A | | |
| 10# | ZTX338CK | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 250 | †Δ | | | 12p | PL | B58 | A | | |
| 11# | ZTX338CL | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 250 | †Δ | | | 12p | PL | B58 | A | | |
| 12# | ZTX338CM | 750m | 200M | 6.8m | SS | 30 | 30 | 5.0 | 800m | 100m | 1.0 | 100m | 250 | †Δ | | | 12p | PL | B58 | A | | |
| 13# | 2SC111 | 750m | 240M | | | 50 | | 5.0 | 300m | 10u | 2.0 | 200m | 50 | | | 6.0p | PE | T05 | A | | | |
| 14# | 2SC32 | 750m | 250M | | SJ | 60 | 25 | 5.0 | 200m | .10u | 10 | 10m | 60 | | | 4.0p | PE | T05 | A | | | |
| 15# | 2SC526 | 750m | 250M | 5.0m | SJ | 165 | 150 | 5.0 | 55m | 2.0u | 20 | 45m | 20 | †Δ | | 3.5p | PEM | T05 | A | | | |
| 16# | 2SC1217† | 750m | 250M | 5.0m | SJ | 150 | 150 | 5.0 | 300m | 100m | 1.0 | 50m | 70 | † | | 6.0p | PE | T039 | A | | | |
| 17# | 2SC1811-1 | 750m | 250M | 7.9m | SJ | 240 | 150 | 5.0 | 100m | 200m | 5.0 | 3.0m | 50 | †Δ* | | 2.4p | PE | R232 | B | | | |
| 18# | 2SC1811-2 | 750m | 250M | 7.9m | SJ | 240 | 175 | 5.0 | 100m | 200m | 5.0 | 3.0m | 102 | †Δ* | | 2.4p | PE | R232 | B | | | |
| 19# | 2SC1957 | 750m | 250M | 6.0m | SJ | 75 | 40 | 4.0 | 1.0 | 1.0u | 10 | 500m | 90 | † | | 14p | PE | B16m | B | | | |
| 20# | 2SC2314 | 750m | 250M | | SJ | 75 | 45 | 5.0 | 1.0 | 1.0u | 5.0 | 500m | 150 | † | | 25p | PE | TO126 | B | | | |
| 21# | 2SC1218† | 750m | 300M | 5.0m | SJ | 80 | 80 | 5.0 | 500m | 100m | 1.0 | 50m | 80 | † | | 6.0p | PE | TO39 | A | | | |
| 22# | 2SC1973 | 750m | 300M | 5.0m | SJ | 55 | 45 | 4.0 | 800m | 1.0u | 5.0 | 100m | 20 | †Δ | | 6.0p | PE | R182a | B | | | |
| 23 | BT3724 | 750m | 300M | 4.2m | SJ | 50 | 30 | 6.0 | | 1.7u | 10 | 100m | 60 | †Δ | | 6.0p | PE | C14b | AA | | | |
| 24 | BT3724T | 750m | 300M | 4.2m | SJ | 50 | 30 | 6.0 | | 1.7u | 10 | 100m | 60 | †Δ | | 6.0p | PE | TO18 | A | | | |
| 25 | BT3725 | 750m | 300M | 4.2m | SJ | 80 | 50 | 6.0 | | 1.7u | 10 | 100m | 60 | †Δ | | 6.0p | PE | C14b | AA | | | |
| 26 | BT3725T | 750m | 300M | 4.2m | SJ | 80 | 50 | 6.0 | | 1.7u | 10 | 100m | 60 | †Δ | | 6.0p | PE | TO18 | A | | | |
| 27# | 2SD755 | 750m | 300M | 6.0m | SJ | 100 | 100 | 5.0 | 50m | 500m | 12 | 2.0m | 1.2k | †* | | 1.6p | PE | R195c | B | | | |
| 28# | 2SD756 | 750m | 350M | 6.0m | SJ | 120 | 120 | 5.0 | 50m | 500m | 12 | 2.0m | 1.2k | †* | | 1.6p | PE | R195c | B | | | |
| 29# | 2SD756A | 750m | 350M | 6.0m | SJ | 140 | 140 | 5.0 | 50m | 500m | 12 | 2.0m | 500 | †* | | 1.6p | PE | R195c | B | | | |
| 30# | 2SC1976 | 750m | 700M | 6.8m | SJ | 36 | 18 | 4.0 | 500m | 1.0u | 13 | 100m | 70 | † | | 6.0p | PE | R182a | B | | | |
| 31# | 2SC652 | 750m | 800M | 5.9m | SJ | 40 | 20 | 3.0 | 300m | 100m | 1.0 | 100m | 20 | †#Δ | | 2.5p | PE | TO5 | A | | | |
| 32# | 2SC651 | 750m | 1.1G | | SJ | 45 | 22 | 4.0 | 300m | 100m | 1.0 | 100m | 80 | | | 3.5p | PE | TO5 | A | | | |
| 33 | KJ6001 | 750m | 3.5G | 4.0m | SJ | 20 | | 3.0 | 100m | 100m | 1.0 | 5.0m | 20 | Δ | | 1.7ps | PE | W21 | R | | | |
| 34# | BSW39-6† | 790m | 50M | 4.5m | SJ | 100 | 80 | 7.0 | 1.0 | 30m | 1.0 | 1.0m | 20 | † | | 20p | PE | TO39 | A | | | |
| 35# | BSW39-10† | 790m | 50M | 4.5m | SJ | 100 | 80 | 7.0 | 1.0 | 30m | 1.0 | 1.0m | 30 | †Δ | | 20p | PE | TO39 | A | | | |
| 36# | BSW39-16† | 790m | 50M | 4.5m | SJ | 100 | 80 | 7.0 | 1.0 | 30m | 1.0 | 1.0m | 40 | †Δ | | 20p | PE | TO39 | A | | | |
| 37 | 2N1105 | 800m | | 4.6m | SS | 60 | 60 | 8.0 | 500m | 10u | 10 | 200m | 12 | †Δ | | | PL | TO43 | A | | | |
| 38 | 2N1943 | 800m | | 4.5m | SJ | 60 | 60 | 8.0 | 500m | 10u | 6.0 | 1.0m | 12 | † | | | PL | TO5 | A | | | |
| 39 | 2N2886 | 800m | | 4.5m | SJ | 50 | 40 | 5.0 | 500m | 1.0u | 1.5 | 5.0m | 22 | †Δ | | | PL | TO5 | A | | | |
| 40 | 2N5189 | 800m | | 4.5m | SS | 60 | 55 | 5.0 | 2.0 | 100u | 1.0 | 1.0 | 15 | † | | | PL | R179q | A | | | |
| 41 | 2N5262† | 800m | | 5.7m | SS | 75 | 50 | 5.0 | 2.0 | 100u | 1.0 | 500m | 40 | †Δ | | | PL | R179n | A | | | |
| 42# | 2SC1069† | 800m | | 5.3m | SJ | 100 | 80 | 6.0 | 1.0 | 500m | 3.0 | 500m | 40 | † | | | PE | TO39 | A | | | |
| 43# | 2SC1072† | 800m | | | SJ | | | | | | 1.0 | 500m | 35 | †Δ | | 12p | PE | R179n | A | | | |
| 44# | 2SC1072A† | 800m | | | SJ | | | | | | 500m | 35 | †Δ | | 3.0p | PE | R179n | A | | | | |
| 45# | 2SC1150† | 800m | | 5.3m | SJ | 60 | 50 | 5.0 | 1.0 | 500m | 1.0 | 500m | 50 | | | | PE | R216 | A | | | |
| 46# | 2SC1385H† | 800m | | 5.3m | SJ | 60 | 30 | 5.0 | 500m | 500m | 1.1 | 300m | 35 | †Δ | | | PE | TO39 | A | | | |
| 47# | 2SC1386H† | 800m | | 5.3m | SJ | 70 | 52 | 5.0 | 1.0 | 100u | 1.0 | 60m | 30 | †Δ | | | PE | TO39 | A | | | |
| 48# | 2SC1388† | 800m | | 4.5m | SJ | 100 | 80 | 6.0 | 1.0 | 500m | 3.0 | 500m | 15 | * | | | PEΔ | TO39 | A | | | |
| 49# | 2SC1635† | 800m | | 5.3m | SJ | 70 | 50 | 5.0 | 1.0 | 300m | 1.0 | 500m | 50 | | | | PEΔ | R216a | A | | | |
| 50# | 2SD329† | 800m | | 5.3m | SJ | 70 | 200 | 5.0 | 1.0 | 20u | 4.0 | 1.0 | 40 | † | | | D | TO39 | A | | | |
| 51# | BC312 | 800m | | | SJ | 100 | 100 | 5.0 | 150m | 100n | 10 | 30m | 130 | † | | 5.3u | 1.5k | 1.5 | 6.0p | PL | TO5 | A |
| 52# | BCW90K | 800m | | 6.4m | SJ | 50 | 40 | 5.0 | 800m | 30m | 2.0 | 150m | 100 | †Δ | | 12p | PE | R198 | A | | | |
| 53# | BCW91K | 800m | | 6.4m | SJ | 70 | 60 | 5.0 | 800m | 30m | 2.0 | 150m | 100 | †Δ | | 12p | PE | R198 | A | | | |
| 54# | BF355 | 800m | | 4.5m | SJ | 300 | 225 | 5.0 | 100m | 100u | 1.0 | 10m | 20 | † | | | PLΔ | TO39 | A | | | |
| 55# | BFR36 | 800m | | 5.0m | SJ | 40 | 30 | 4.0 | 150m | | 5.0 | 150m | 40 | † | | 2.1p | PE | TO39 | A | | | |
| 56# | BFY40 | 800m | | | SJ | 30 | 30 | 4.0 | 800m | | 10 | 10m | 40 | †Δ | | 20p | PE | TO39 | A | | | |
| 57# | BFY41 | 800m | | 4.5m | SS | 120 | 120 | 5.0 | 600m | 10u | 10 | 50m | 35 | † | | 14p | PL | TO5 | A | | | |
| 58# | BFY41 | 800m | | | SJ | 60 | 40 | 4.0 | 600m | | 10 | 50m | 35 | † | | | PE | TO39 | A | | | |
| 59# | BSV69† | 800m | | 5.2m | SJ | 45 | 40 | 6.0 | 1.0 | 100u | 1.0 | 500m | 50 | †# | | 10p | PEΔ | TO39 | A | | | |
| 60# | C428 | 800m | | 4.5m | SJ | 40 | 30 | 5.0 | | 50u | 10 | 10m | 150 | † | | 14p | PE | TO39 | A | | | |
| 61# | C744 | 800m | | 8.0m | SJ | 60 | 60 | 5.0 | | 100u | 10 | 50m | 175 | † | | | PE | TO39 | A | | | |
| 62 | 2N1445 | 800m | 75k† | 4.5m | SJ | 120 | 120 | 8.0 | 750m | 10u | 10 | 200m | 80 | †# | | 500 | | PE | TO5 | A | | |
| 63 | 2N4237 | 800m | 1.0M | 4.5m | SJ | 50 | 40 | 6.0 | | 100u | 10 | 100m | 30 | †Δ | | 100p | PE | TO5 | A | | | |
| 64 | 2N4238 | 800m | 1.0M | 4.5m | SJ | 80 | 60 | 6.0 | 1 | 100u | 10 | 100m | 30 | †Δ | | 100p | PE | TO5 | A | | | |
| 65 | 2N4239 | 800m | 1.0M | 4.5m | SJ | 100 | 80 | 6.0 | 1 | 100u | 10 | 100m | 30 | †Δ | | 100p | PE | TO5 | A | | | |
| 66# | 2SD149 | 800m | 1.2M | 5.3m | SJ | 70 | 70 | 5.0 | 1.0 | 20u | 4.0 | 1.0 | 40 | † | | 100p | PE | TO39 | A | | | |
| 67# | 2SD215 | 800m | 1.2M | 5.3m | SJ | 40 | 35 | 5.0 | 1.0 | 20u | 4.0 | 500m | 70 | † | | | DΔ | TO39 | A | | | |
| 68# | 2SD216 | 800m | 1.2M | 5.3m | SJ | 60 | 50 | 5.0 | 1.0 | 20u | 4.0 | 500m | 70 | † | | | DΔ | TO39 | A | | | |
| 69 | JAN2N3439† | 800m | 15M | 4.5m | SS | 450 | 350 | 7.0 | 1.0 | 500u | 10 | 5.0m | 25 | † | | 10p | PE | TO5 | A | | | |
| 70 | JAN2N3440† | 800m | 15M | 4.5m | SS | 300 | 250 | 7.0 | 1.0 | 500u | 10 | 5.0m | 25 | † | | 10p | PE | TO5 | A | | | |
| 71# | 2SC1888 | 800m | 15M | 6.4m | SJ | 80 | 60 | 6.0 | 3.0 | 100u | 4.0 | 200m | 500 | †Δ | | 60p | D | TO5 | A | | | |
| 72# | 2SC1889 | 800m | 15M | 6.4m | SJ | 100 | 80 | 6.0 | 3.0 | 100u | 4.0 | 200m | 500 | †Δ | | 60p | D | TO5 | A | | | |
| 73 | HSE148-RT | 800m | 15M | 6.4m | SJ | 70 | 60 | 5.0 | | 100u | 1.0 | 150m | 40 | †Δ | | | PE | TO5 | A | | | |
| 74 | MJ420 | 800m | 15M | 5.3m | SJ | 275 | 250 | 6.0 | 100m | 100u | 20 | 10m | 25 | † | | 12p | PE | TO5 | C | | | |
| 75 | MJ421 | 800m | 15M | 5.3m | SJ | 350 | 325 | 6.0 | 100m | 100u | 20 | 10m | 25 | † | | 12p | PE | TO5 | C | | | |
| 76 | 2N1714 | 800m | 16M | 5.3m | SJ | 90 | 60 | 6.0 | 750m | 1.0u | 5.0 | 200m | 20 | †#Δ | | 50p | PE | TO5 | A | | | |
| 77 | JAN2N1714 | 800m | 16M | 5.2m | SJ | 90 | 60 | 6.0 | 750m | 1.0u | 5.0 | 200m | 20 | †#Δ | | 50</ | | | | | | |