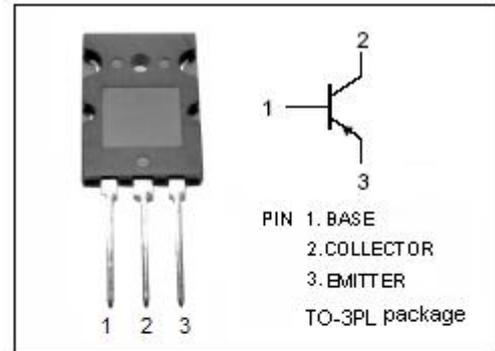


isc Silicon PNP Power Transistor
TTA0002
DESCRIPTION

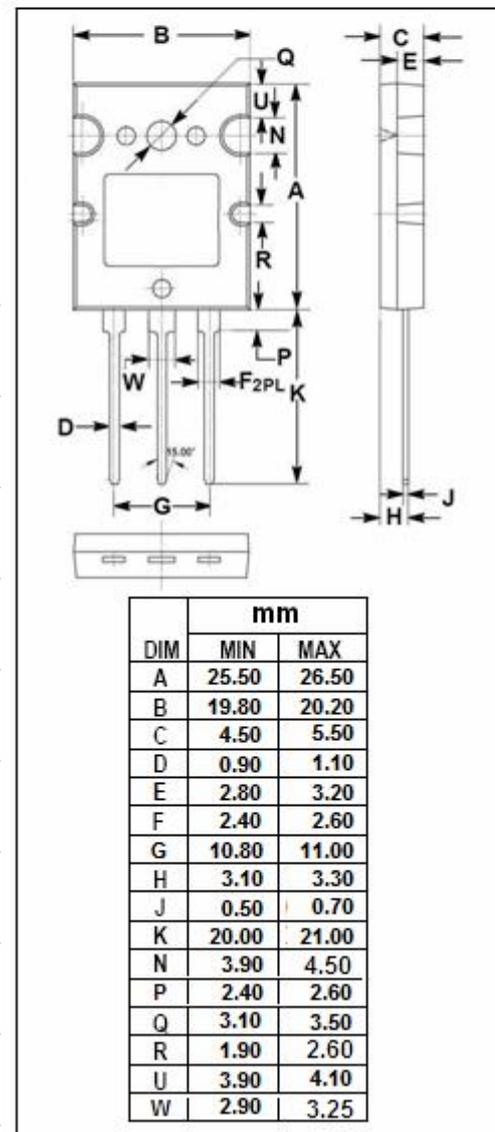
- Low Collector Saturation Voltage
- Good Linearity of h_{FE}
- Complement to Type TTC0002
- Minimum Lot-to-Lot variations for robust device performance and reliable operation


APPLICATIONS

- Power amplifier applications
- Recommend for 100W high fidelity audio frequency amplifier output stage applications

ABSOLUTE MAXIMUM RATINGS($T_a=25^\circ\text{C}$)

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|---|---------|------------------|
| V_{CBO} | Collector-Base Voltage | -160 | V |
| V_{CEO} | Collector-Emitter Voltage | -160 | V |
| V_{EBO} | Emitter-Base Voltage | -5 | V |
| I_C | Collector Current-Continuous | -18 | A |
| I_B | Base Current-Continuous | -9 | A |
| P_C | Collector Power Dissipation @ $T_c=25^\circ\text{C}$ | 180 | W |
| T_J | Junction Temperature | 150 | $^\circ\text{C}$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ\text{C}$ |



isc Silicon PNP Power Transistor

TTA0002

ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

| SYMBOL | PARAMETER | CONDITIONS | MIN | TYP. | MAX | UNIT |
|----------------------|--------------------------------------|--|------|------|------|------|
| V _{(BR)CEO} | Collector-Emitter Breakdown Voltage | I _C = -50mA ; I _B = 0 | -160 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -9A; I _B = -0.9A | | | -2.0 | V |
| V _{BE(on)} | Base-Emitter On Voltage | I _C = -9A ; V _{CE} = -5V | | | -1.5 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = -160V ; I _E =0 | | | -1.0 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -5V; I _C =0 | | | -1.0 | μ A |
| h _{FE-1} | DC Current Gain | I _C = -1A ; V _{CE} = -5V | 80 | | 160 | |
| h _{FE-2} | DC Current Gain | I _C = -9A ; V _{CE} = -5V | 35 | | | |
| C _{OB} | Output Capacitance | I _E =0 ; V _{CB} = -10V; f _{test} = 1.0MHz | | 410 | | pF |
| f _T | Current-Gain—Bandwidth Product | I _C =-1A ; V _{CE} = -5V | | 30 | | MHZ |

Notice:

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