

DESCRIPTION

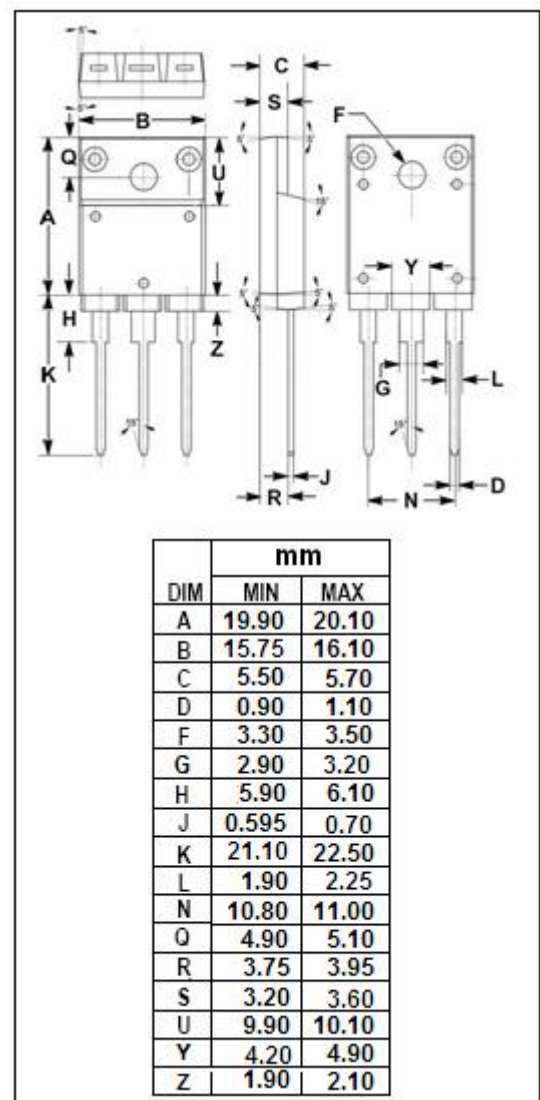
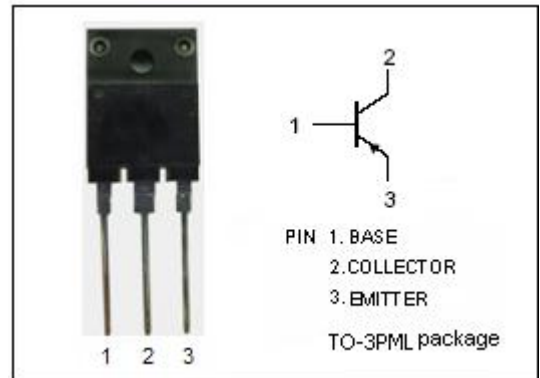
- Low Collector Saturation Voltage
: $V_{CE(sat)} = -0.5(V)(Max) @ I_C = -5A$
- Good Linearity of h_{FE}

APPLICATIONS

- Designed for chopper regulator, switch and general purpose applications

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

| SYMBOL | PARAMETER | VALUE | UNIT |
|-----------|--|---------|------------|
| V_{CBO} | Collector-Base Voltage | -70 | V |
| V_{CEO} | Collector-Emitter Voltage | -50 | V |
| V_{EBO} | Emitter-Base Voltage | -6 | V |
| I_C | Collector Current-Continuous | -12 | A |
| I_{CM} | Collector Current-Peak | -20 | A |
| I_B | Base Current-Continuous | -4 | A |
| P_C | Collector Power Dissipation @ $T_c = 25^\circ C$ | 60 | W |
| T_J | Junction Temperature | 150 | $^\circ C$ |
| T_{stg} | Storage Temperature Range | -55~150 | $^\circ C$ |



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 = -25mA ; I _B = 0 | -50 | | | V |
| V _{CE(sat)} | Collector-Emitter Saturation Voltage | I _C = -5A; I _B = -80mA | | | -0.5 | V |
| V _{BE(sat)} | Base-Emitter Saturation Voltage | I _C = -5A; I _B = -80mA | | | -1.2 | V |
| I _{CBO} | Collector Cutoff Current | V _{CB} = -70V ; I _E = 0 | | | -10 | μ A |
| I _{EBO} | Emitter Cutoff Current | V _{EB} = -6V; I _C = 0 | | | -10 | μ A |
| h _{FE} | DC Current Gain | I _C = -5A ; V _{CE} = -1V | 50 | | | |
| C _{OB} | Output Capacitance | I _E = 0 ; V _{CB} = -10V;f= 1.0MHz | | 400 | | pF |
| f _T | Current-Gain—Bandwidth Product | I _E = 1A ; V _{CE} = -12V | | 25 | | MHz |

Switching Times

| | | | | | | |
|------------------|--------------|---|--|-----|--|-----|
| t _{on} | Turn-on Time | I _C = -5A , R _L = 4 Ω , I _{B1} = -I _{B2} = -80mA, V _{CC} = -20V | | 0.5 | | μ s |
| t _{stg} | Storage Time | | | 0.6 | | μ s |
| t _f | Fall Time | | | 0.3 | | μ s |

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