

SEMICONDUCTOR TM

MJE2955T

General Purpose and Switching Applications

- DC Current Gain Specified to $I_C = 10 \text{ A}$ High Current Gain Bandwidth Product : $f_T = 2MHz$ (Min.)



1.Base 2.Collector 3.Emitter

PNP Silicon Transistor

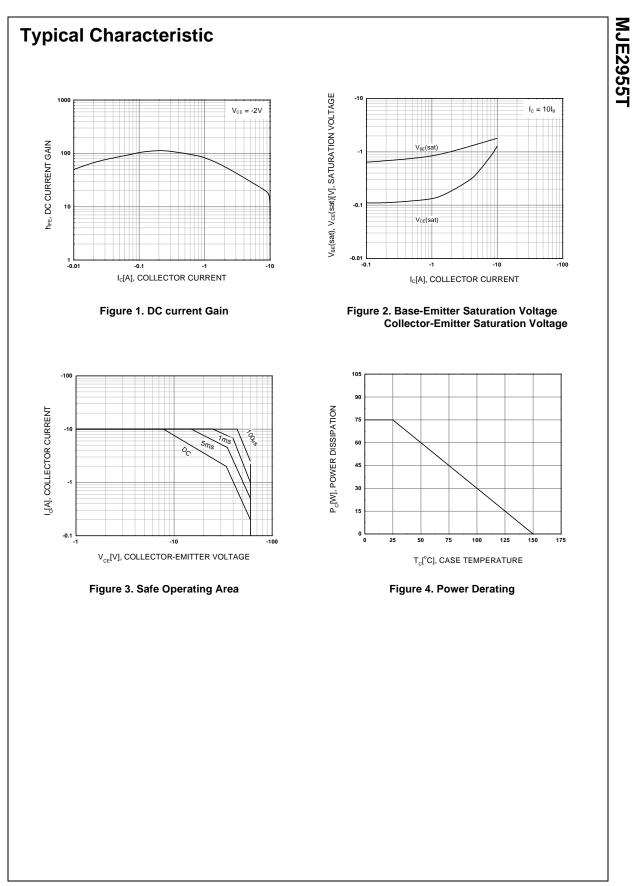
Absolute Maximum Ratings T_C=25°C unless otherwise noted

| Symbol | Parameter | Value | Units |
|------------------|--|------------|-------|
| V _{CBO} | Collector-Base Voltage | - 70 | V |
| V _{CEO} | Collector-Emitter Voltage | - 60 | V |
| V _{EBO} | Emitter-Base Voltage | - 5 | V |
| I _C | Collector Current | - 10 | А |
| I _B | Base Current | - 6 | А |
| P _C | Collector Dissipation (T _C =25°C) | 75 | W |
| P _C | Collector Dissipation (T _a =25°C) | 0.6 | W |
| Tj | Junction Temperature | 150 | °C |
| T _{STG} | Storage Temperature | - 55 ~ 150 | °C |

Electrical Characteristics T_C=25°C unless otherwise noted

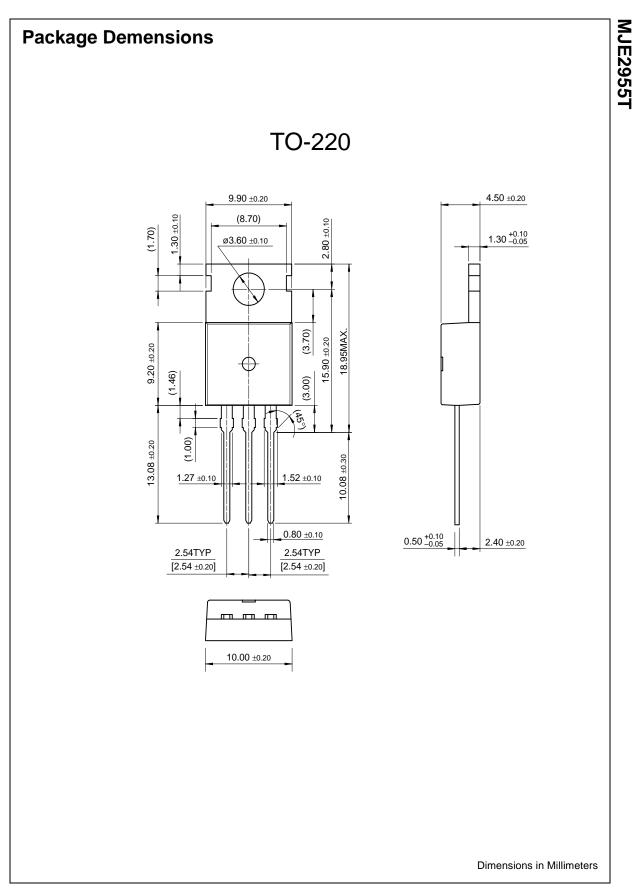
| Symbol | Parameter | Test Condition | Min. | Max. | Units |
|-----------------------|--|---|---------|------------|--------|
| BV _{CEO} | Collector- Emitter Breakdown Voltage | I _C = - 200mA, I _B = 0 | -60 | | V |
| I _{CEO} | Collector Cut-off Current | $V_{CE} = -30V, I_B = 0$ | | -700 | μΑ |
| I _{CEX1} | Collector Cut-off Current | V _{CE} = - 70V, V _{BE} (off) = 1.5V | | -1 | mA |
| I _{CEX2} | Collector Cut-off Current | $V_{CE} = -70V, V_{BE}(off) = 1.5V$ @ T _C = 150°C | | -5 | mA |
| I _{EBO} | Emitter Cut-off Current | $V_{EB} = -5V, I_{C} = 0$ | | -5 | mA |
| h _{FE} | * DC Current Gain | $V_{CE} = -4V, I_{C} = -4A$ $V_{CE} = -4V, I_{C} = -10A$ | 20 5 | 100 | |
| V _{CE} (sat) | * Collector-Emitter Saturation Voltage | $I_{C} = -4A, I_{B} = -0.4A$ $I_{C} = -10A, I_{B} = -3.3A$ | | -1.1 -8 | V V |
| V _{BE} (on) | * Base-Emitter ON Voltage | $V_{CE} = -4V, I_{C} = -4A$ | | -1.8 | V |
| f _T | Current Gain Bandwidth Product | V _{CE} = - 10V, I _C = - 500mA | 2 | | MHz |

* Pulse test: PW≤300µs, duty cycle≤2% Pulse



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