



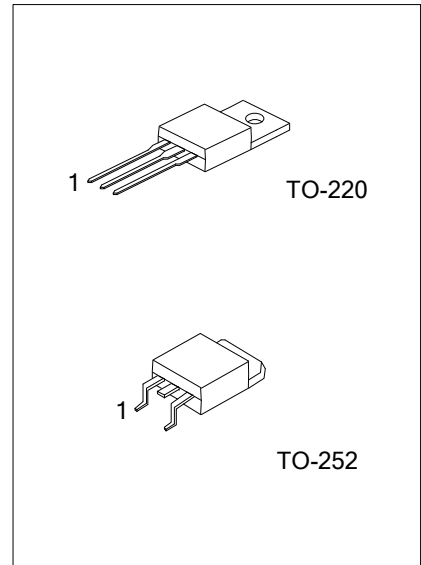
MJE2955T

PNP SILICON TRANSISTOR

HIGH VOLTAGE TRANSISTOR

DESCRIPTION

The UTC **MJE2955T** is designed for general purpose of amplifier and switching applications.



ORDERING INFORMATION

| Ordering Number | | Package | Pin Assignment | | | Packing |
|-----------------|-----------------|---------|----------------|---|---|-----------|
| Lead Free | Halogen Free | | 1 | 2 | 3 | |
| MJE2955TL-TA3-T | MJE2955TG-TA3-T | TO-220 | B | C | E | Tube |
| MJE2955TL-TN3-R | MJE2955TG-TN3-R | TO-252 | B | C | E | Tape Reel |

Note: B:BASE C: COLLECTOR E: EMITTER

| | |
|---|---|
| <p>MJE2955TL-TA3-R</p> <p>(1)Packing Type</p> <p>(2)Package Type</p> <p>(3)Lead Plating</p> | <p>(1) T: Tube, R: Tape Reel</p> <p>(2) TA3: TO-220, TN3: TO-252</p> <p>(3) L: Lead Free Plating, G: Halogen Free</p> |
|---|---|

■ ABSOLUTE MAXIMUM RATING

| PARAMETER | SYMBOL | RATINGS | UNIT |
|--|-----------|------------|------------------|
| Collector-Base Voltage | V_{CBO} | -70 | V |
| Collector-Emitter Voltage | V_{CEO} | -60 | V |
| Emitter-Base Voltage | V_{EBO} | -5 | V |
| Collector current | I_C | -10 | A |
| Base Current | I_B | -6 | A |
| Total Power Dissipation ($T_A=25^\circ\text{C}$) | P_C | 75 | W |
| Junction Temperature | T_J | +150 | $^\circ\text{C}$ |
| Storage Temperature | T_{STG} | -55 ~ +150 | $^\circ\text{C}$ |

Note: 1. Absolute maximum ratings are those values beyond which the device could be permanently damaged.

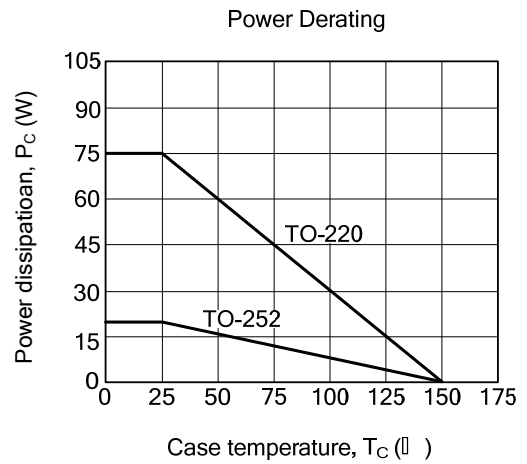
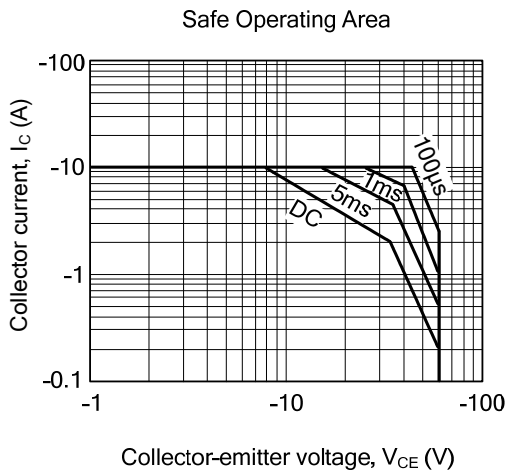
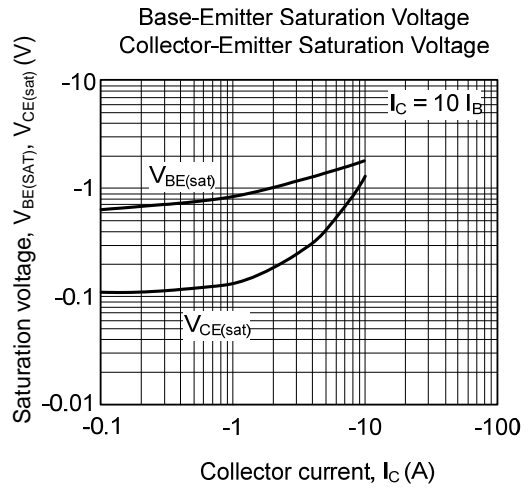
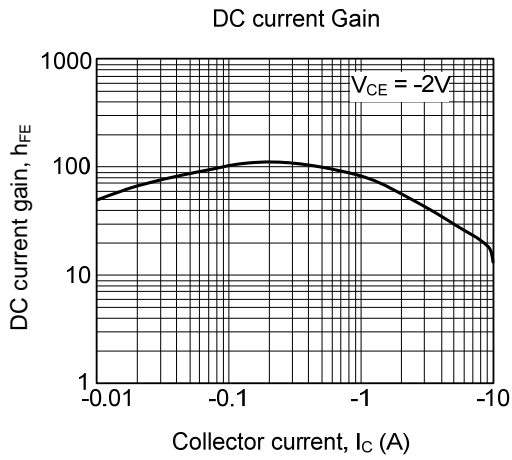
Absolute maximum ratings are stress ratings only and functional device operation is not implied.

2. The device is guaranteed to meet performance specification within $0^\circ\text{C} \sim 70^\circ\text{C}$

■ ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$, unless otherwise specified)

| PARAMETER | SYMBOL | TEST CONDITIONS | MIN | TYP | MAX | UNIT |
|--------------------------------------|----------------|---|-----|-----|------|---------------|
| Collector-Emitter Breakdown Voltage | BV_{CEO} | $I_C=-200\text{mA}$ | -60 | | | V |
| Collector-Base Breakdown Voltage | BV_{CBO} | $I_C=-10\text{mA}$ | -70 | | | V |
| Emitter-Base Breakdown Voltage | BV_{EBO} | $I_E=-10\text{mA}$ | -5 | | | V |
| Collector Cut-Off Current | I_{CBO} | $V_{CB}=-70\text{V}$ | | | -1 | mA |
| | I_{CEO} | $V_{CE}=-30\text{V}$ | | | -700 | μA |
| | I_{CEX} | $V_{CE}=-70\text{V}, V_{EB(OFF)}=-1.5\text{V}$ | | | -1 | mA |
| Emitter Cut-Off Current | I_{EBO} | $V_{EB}=-5\text{V}$ | | | -5 | mA |
| Collector-Emitter Saturation Voltage | $V_{CE(SAT)1}$ | $I_C=-4\text{A}, I_B=-0.4\text{A}$ | | | -1.1 | V |
| | $V_{CE(SAT)2}$ | $I_C=-10\text{A}, I_B=-3.3\text{A}$ | | | -8.0 | V |
| Base-Emitter on Voltage | $V_{BE(ON)}$ | $V_{CE}=-4\text{V}, I_C=-4\text{A}$ | | | -1.8 | V |
| DC Current Gain | h_{FE1} | $I_C=-4\text{A}, V_{CE}=-4\text{V}$ | 20 | | 100 | |
| | h_{FE2} | $I_C=-10\text{A}, V_{CE}=-4\text{V}$ | 5 | | | |
| Current Gain Bandwidth Product | f_T | $V_{CE}=-10\text{V}, I_C=-0.5\text{A}, f=1\text{MHz}$ | 2 | | | MHZ |

TYPICAL CHARACTERISTICS



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