

| Collector- base vollage                      | . IVIJE000/00 I   | 60  | v   |   |
|--|---|---|---|---|
|  | : MJE802/803  | 80  | V   |   |
| Collector-Emitter Voltage                    | : MJE800/801  | 60  | V   | E   |
|  | : MJE802/803  | 80  | V   |   |
| Emitter-Base Voltage                         |   | 5   | V   |   |
| Collector Current                            |   | 4   | Α   |   |
| Base Current                                 |   | 0.1   | Α   |   |
| Collector Dissipation (T <sub>C</sub> =25°C) |   | 40  | W   |   |
| Junction Temperature                         |   | 150   | °C  |   |
| Storage Temperature                          |   | - 55 ~ 150  | °C  |   |
|  | Collector-Emitter Voltage<br>Emitter-Base Voltage<br>Collector Current<br>Base Current<br>Collector Dissipation (T <sub>C</sub> =25<br>Junction Temperature | : MJE802/803<br>Collector-Emitter Voltage : MJE800/801<br>: MJE802/803<br>Emitter-Base Voltage<br>Collector Current<br>Base Current<br>Collector Dissipation (T <sub>C</sub> =25°C)<br>Junction Temperature | $\begin{array}{c c} & \vdots \ MJE802/803 & 80 \\ \hline Collector-Emitter \ Voltage & \vdots \ MJE800/801 & 60 \\ \vdots \ MJE802/803 & 80 \\ \hline Emitter-Base \ Voltage & 5 \\ \hline Collector \ Current & 4 \\ \hline Base \ Current & 0.1 \\ \hline Collector \ Dissipation \ (T_C=25^\circ C) & 40 \\ \hline Junction \ Temperature & 150 \\ \hline \end{array}$ | $\begin{array}{c c} & : MJE802/803 & 80 & V \\ \hline Collector-Emitter Voltage & : MJE800/801 & 60 & V \\ & : MJE802/803 & 80 & V \\ \hline Emitter-Base Voltage & 5 & V \\ \hline Collector Current & 4 & A \\ \hline Base Current & 0.1 & A \\ \hline Collector Dissipation (T_C=25^{\circ}C) & 40 & W \\ \hline Junction Temperature & 150 & ^{\circ}C \\ \hline \end{array}$ |



| Symbol                | Param   | eter   | Test Condition   | Min.              | Max.            | Unit        |
|-----------------------|---|--|--|-------------------|-----------------|-------------|
| BV <sub>CEO</sub>     |   | eakdown Voltage<br>: MJE800/801<br>: MJE802/803                    | I <sub>C</sub> = 50mA, I <sub>B</sub> = 0  | 60<br>80          |                 | V<br>V      |
| 1                     |   |  |  | 00                |                 | v           |
| ICEO                  | Collector Cut-off Current<br>: MJE800/801<br>: MJE802/803 |  | $V_{CE} = 60V, I_B = 0$<br>$V_{CE} = 80V, I_B = 0$   |                   | 100<br>100      | μΑ<br>μΑ    |
| I <sub>CBO</sub>      | Collector Cut-off Current                                 |  | $V_{CB}$ = Rated $BV_{CEO}$ , $I_E = 0$<br>$V_{CB}$ = Rated $BV_{CEO}$ , $I_E = 0$<br>$T_C = 100^{\circ}C$ |                   | 100<br>500      | μΑ<br>μΑ    |
| I <sub>EBO</sub>      | Emitter Cut-off Current                                   |  | $V_{BE} = 5V, I_{C} = 0$   |                   | 2               | mA          |
| h <sub>FE</sub>       |   | : MJE800/802<br>: MJE801/803<br>: ALL DEVICES                      | $V_{CE} = 3V, I_C = 1.5A$<br>$V_{CE} = 3V, I_C = 2A$<br>$V_{CE} = 3V, I_C = 4A$                            | 750<br>750<br>100 |                 |             |
| V <sub>CE</sub> (sat) |   | aturation Voltage<br>: MJE800/802<br>: MJE801/803<br>: ALL DEVICES | $I_{C} = 1.5A, I_{B} = 30mA$<br>$I_{C} = 2A, I_{B} = 40mA$<br>$I_{C} = 4A, I_{B} = 40mA$                   |                   | 2.5<br>2.8<br>3 | V<br>V<br>V |
| V <sub>BE</sub> (on)  |   | bltage<br>: MJE800/802<br>: MJE801/803<br>: ALL DEVICES            | $V_{CE} = 3V, I_{C} = 1.5A$<br>$V_{CE} = 3V, I_{C} = 2A$<br>$V_{CE} = 3V, I_{C} = 4A$                      |                   | 2.5<br>2.5<br>3 | V<br>V<br>V |

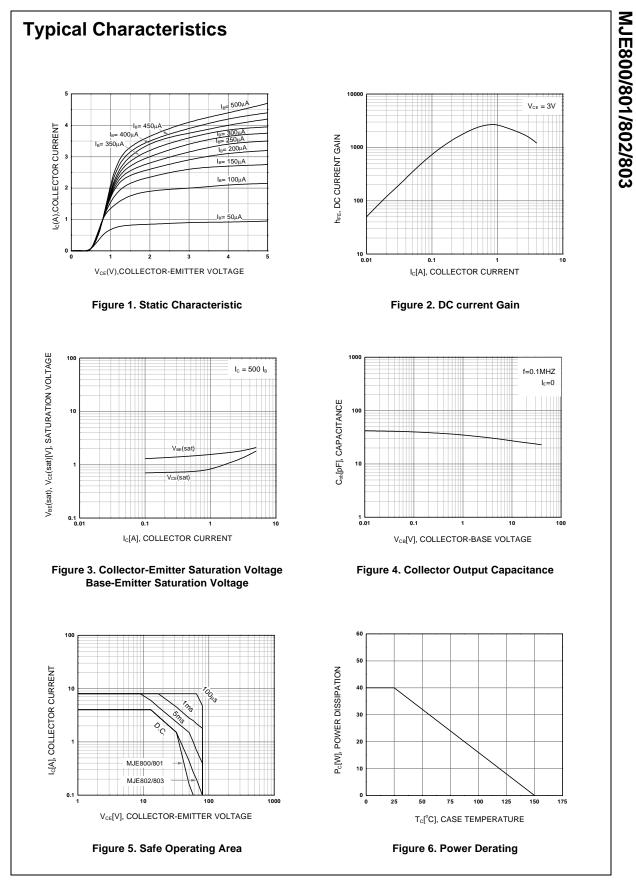
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///~ R1

 $\begin{array}{l} R1 \cong 10 \, k\Omega \\ R2 \cong 0.6 \, k\Omega \end{array}$ 

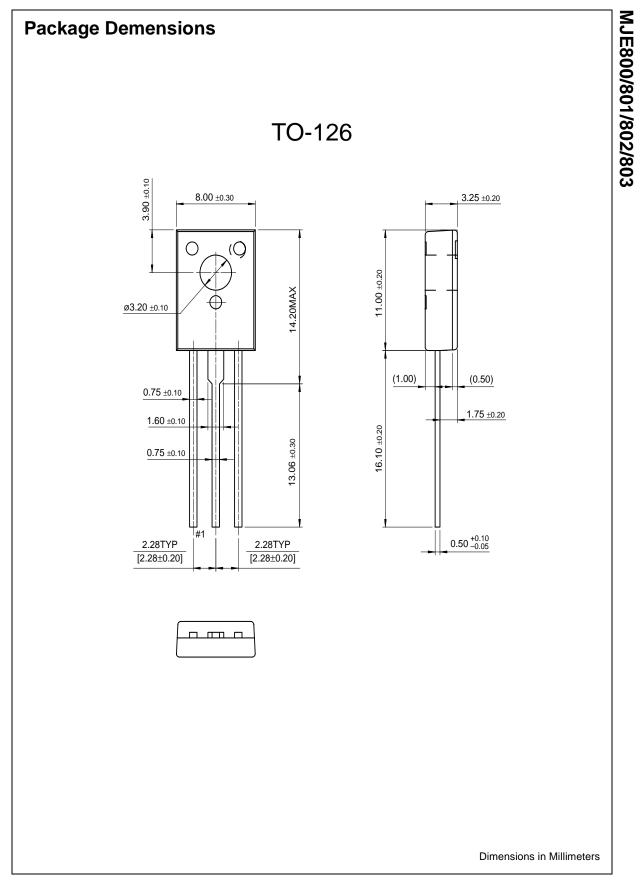
R2

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