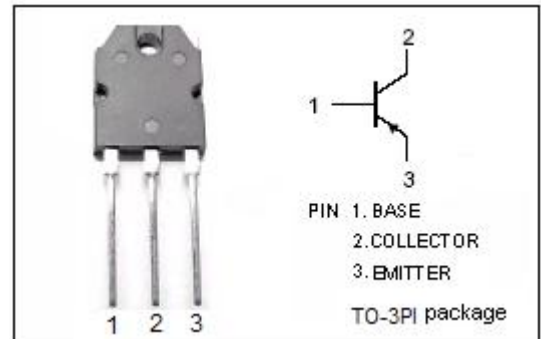


**DESCRIPTION**

- Low Collector Saturation Voltage-  
:  $V_{CE(sat)} = -2.0V(\text{Min}) @ I_C = -7A$
- Good Linearity of  $h_{FE}$
- Complement to Type 2SC3182

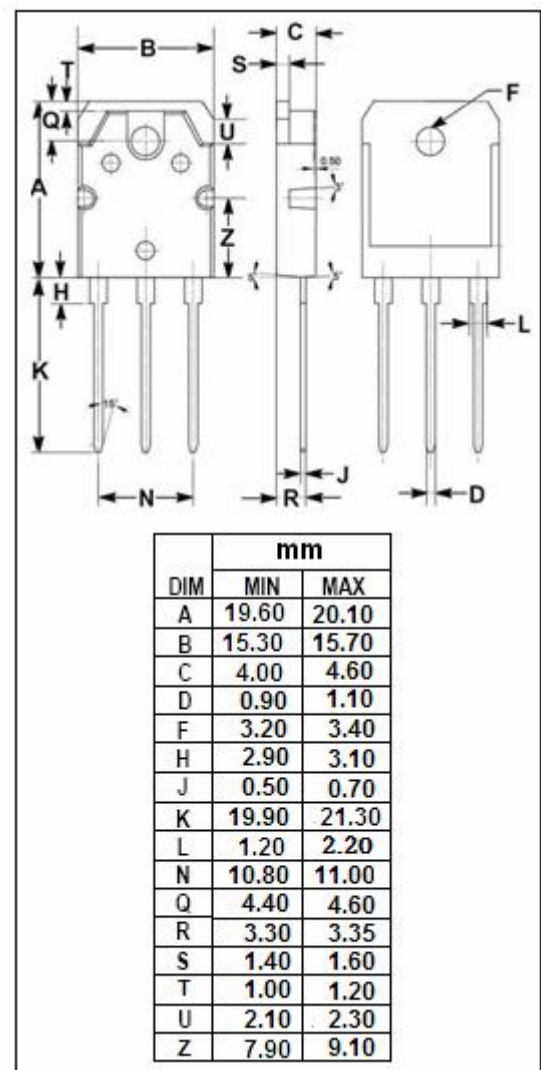
**APPLICATIONS**

- Power amplifier applications
- Recommend for 70W 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                                  | -140    | V                |
| $V_{CEO}$ | Collector-Emitter Voltage                               | -140    | V                |
| $V_{EBO}$ | Emitter-Base Voltage                                    | -5      | V                |
| $I_C$     | Collector Current-Continuous                            | -10     | A                |
| $I_B$     | Base Current-Continuous                                 | -1      | A                |
| $P_C$     | Collector Power Dissipation<br>@ $T_C=25^\circ\text{C}$ | 100     | W                |
| $T_J$     | Junction Temperature                                    | 150     | $^\circ\text{C}$ |
| $T_{stg}$ | Storage Temperature Range                               | -55~150 | $^\circ\text{C}$ |



**ELECTRICAL CHARACTERISTICS**

$T_C=25^{\circ}\text{C}$  unless otherwise specified

| SYMBOL        | PARAMETER                            | CONDITIONS  | MIN  | TYP. | MAX  | UNIT          |
|---------------|--------------------------------------|---|------|------|------|---------------|
| $V_{(BR)CEO}$ | Collector-Emitter Breakdown Voltage  | $I_C = -50\text{mA}; I_B = 0$                             | -140 |      |      | V             |
| $V_{CE(sat)}$ | Collector-Emitter Saturation Voltage | $I_C = -7\text{A}; I_B = -0.7\text{A}$                    |      |      | -2.0 | V             |
| $V_{BE(on)}$  | Base-Emitter On Voltage              | $I_C = -5\text{A}; V_{CE} = -5\text{V}$                   |      |      | -1.5 | V             |
| $I_{CBO}$     | Collector Cutoff Current             | $V_{CB} = -140\text{V}; I_E = 0$                          |      |      | -5   | $\mu\text{A}$ |
| $I_{EBO}$     | Emitter Cutoff Current               | $V_{EB} = -5\text{V}; I_C = 0$                            |      |      | -5   | $\mu\text{A}$ |
| $h_{FE-1}$    | DC Current Gain                      | $I_C = -1\text{A}; V_{CE} = -5\text{V}$                   | 55   |      | 160  |               |
| $h_{FE-2}$    | DC Current Gain                      | $I_C = -5\text{A}; V_{CE} = -5\text{V}$                   | 35   |      |      |               |
| $C_{OB}$      | Output Capacitance                   | $I_E = 0; V_{CB} = -10\text{V}; f_{test} = 1.0\text{MHz}$ |      | 480  |      | pF            |
| $f_T$         | Current-Gain—Bandwidth Product       | $I_C = -1\text{A}; V_{CE} = -5\text{V}$                   |      | 30   |      | MHz           |

◆  **$h_{FE-1}$  Classifications**

|        |        |
|--------|--------|
| R      | O      |
| 55-110 | 80-160 |

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