

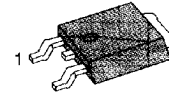
### HIGH VOLTAGE POWER TRANSISTORS DPAK FOR SURFACE MOUNT APPLICATIONS

- Lead Formed for Surface Mount Applications (No Suffix)
- Straight Lead (" -I " Suffix)

### ABSOLUTE MAXIMUM RATINGS

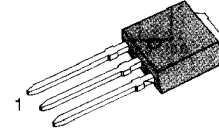
| Characteristic                                     | Symbol    | Rating    | Unit             |
|----------------------------------------------------|-----------|-----------|------------------|
| Collector Base Voltage                             | $V_{CBO}$ | - 300     | V                |
| Collector Emitter Voltage                          | $V_{CEO}$ | - 300     | V                |
| Emitter Base Voltage                               | $V_{EBO}$ | - 3       | V                |
| Collector Current (DC)                             | $I_C$     | - 0.5     | A                |
| Collector Current (Pulse)                          | $I_C$     | - 0.75    | A                |
| Collector Dissipation ( $T_A = 25^\circ\text{C}$ ) | $P_C$     | 1.56      | W                |
| Collector Dissipation ( $T_C = 25^\circ\text{C}$ ) | $P_C$     | 15        | W                |
| Junction Temperature                               | $T_J$     | 150       | $^\circ\text{C}$ |
| Storage Temperature                                | $T_{STG}$ | -65 ~ 150 | $^\circ\text{C}$ |

D-PAK



1. Base 2. Collector 3. Emitter

I-PAK

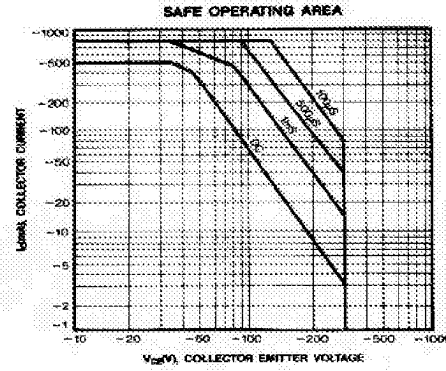
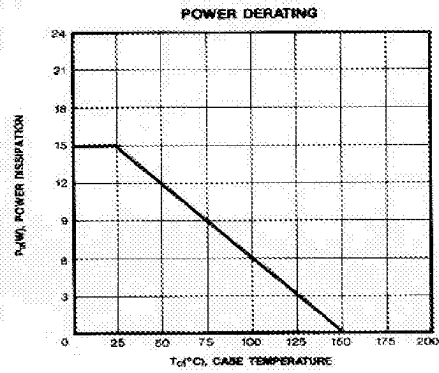
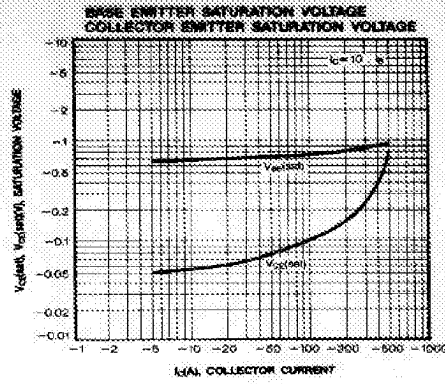
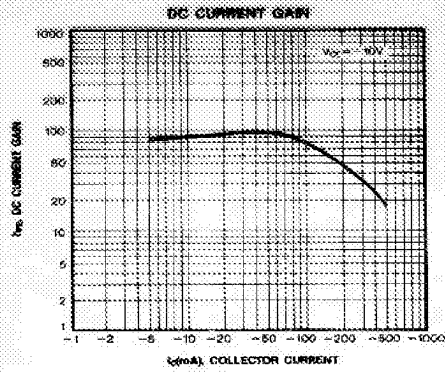


1. Base 2. Collector 3. Emitter

### ELECTRICAL CHARACTERISTICS ( $T_C = 25^\circ\text{C}$ )

| Characteristic                         | Symbol                  | Test Conditions                            | Min   | Max   | Unit |
|----------------------------------------|-------------------------|--------------------------------------------|-------|-------|------|
| * Collector Emitter Sustaining Voltage | $V_{CEO} \text{ (sus)}$ | $I_C = -1 \text{ mA}, I_B = 0$             | - 300 |       | V    |
| Collector Cutoff Current               | $I_{CBO}$               | $V_{CB} = -300\text{V}, I_E = 0$           |       | - 0.1 | mA   |
| Emitter Cutoff Current                 | $I_{EBO}$               | $V_{EB} = -3\text{V}, I_C = 0$             |       | - 0.1 | mA   |
| * DC Current Gain                      | $h_{FE}$                | $V_{CE} = -10\text{V}, I_C = -50\text{mA}$ | 30    | 240   |      |

\*Pulse Test:  $PW \leq 300\mu\text{s}$ , Duty Cycle  $\leq 2\%$



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