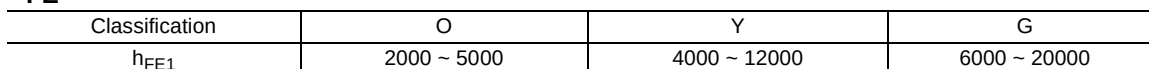


- High DC Current Gain
- High Power Dissipation : $P_C=1.3W$ ($T_a=25^\circ C$)



Typical Characteristics

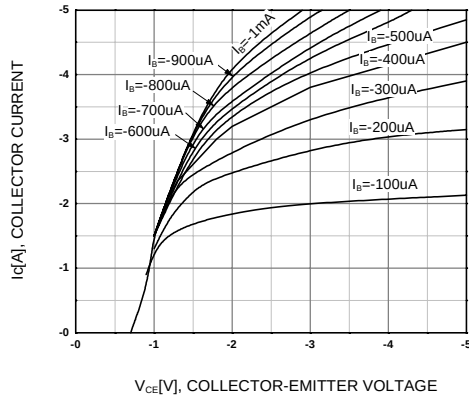


Figure 1. Static Characteristic

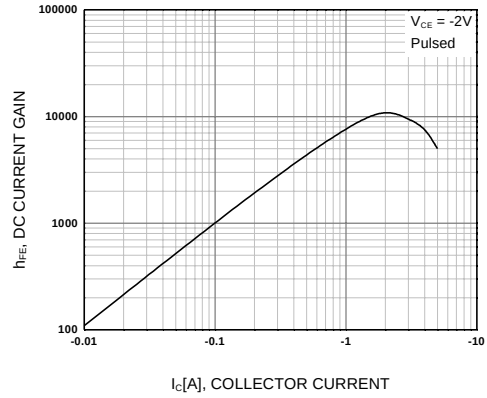


Figure 2. DC current Gain

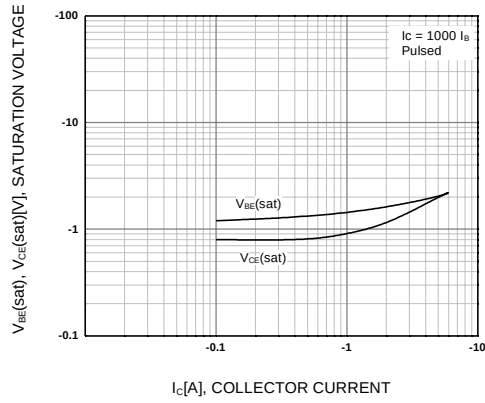


Figure 3. Collector-Emitter Saturation Voltage
Base-Emitter Saturation Voltage

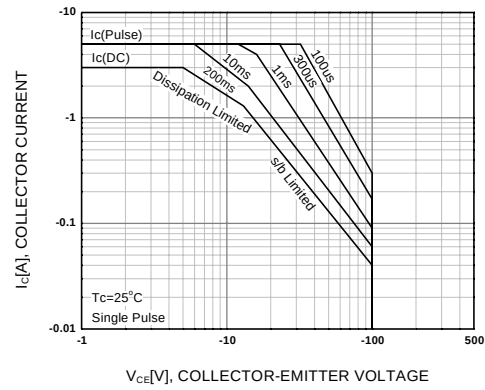


Figure 4. Forward Bias Safe Operating Area

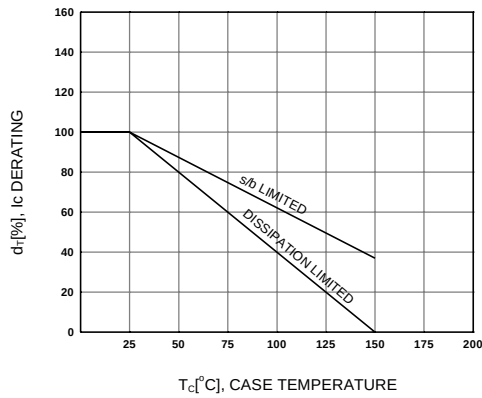


Figure 5. Derating Curve of Safe Operating Areas

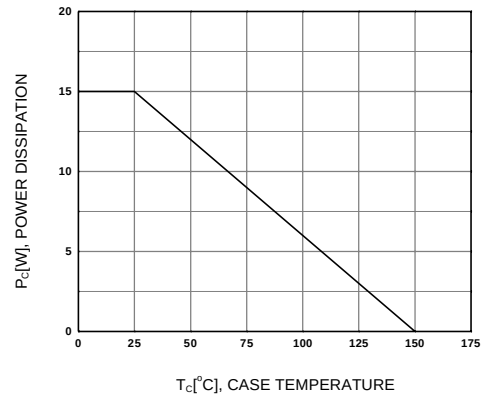


Figure 6. Power Derating

Technical drawing of a 12-pin D-sub connector showing front, side, and top views with dimensions in millimeters.

Front View Dimensions:

- Top flange thickness: 3.90 ± 0.10
- Flange width: 8.00 ± 0.30
- Flange height: 14.20 MAX
- Pin pitch (center-to-center): 2.28 TYP [2.28 ± 0.20]
- Pin diameter: $\phi 3.20 \pm 0.10$
- Pin length (from flange face): 13.06 ± 0.30
- Pin diameter at base: 0.75 ± 0.10
- Pin diameter at top of base: 1.60 ± 0.10
- Pin diameter at bottom of base: 0.75 ± 0.10
- Pin diameter at base (alternative): 0.75 ± 0.10

Side View Dimensions:

- Pin length (from flange face): 11.00 ± 0.20
- Pin length (from base): 16.10 ± 0.20
- Pin diameter at base: $0.50^{+0.10}_{-0.05}$
- Pin diameter at top of base: 1.75 ± 0.20
- Pin diameter at bottom of base: (0.50)
- Pin diameter at base (alternative): (1.00)

Top View:

- Pin diameter at base: $0.50^{+0.10}_{-0.05}$

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