**TECHNICAL DATA**
**DATA SHEET 4665, REV. A**

# HIGH CURRENT HERMETIC SCHOTTKY POWER MODULE

**DESCRIPTION:** A 100 VOLT, 150/120 AMP, POWER SCHOTTKY RECTIFIER IN A POTTED PACKAGE.

**MAXIMUM RATINGS** ALL RATINGS ARE @ $T_C$ = 25 °C UNLESS OTHERWISE SPECIFIED.

| RATING | SYMBOL | MAX. | UNITS |
|---|---|---|---|
| PEAK INVERSE VOLTAGE | PIV | 100 | Volts |
| MAXIMUM DC OUTPUT CURRENT @ $T_C$=100 $^{O}$C (P and N versions) (per device) | $I_O$ | 150 | Amps |
| MAXIMUM DC OUTPUT CURRENT @ $T_C$=100 $^{O}$C (Single and D versions) (per device) | $I_O$ | 120 | Amps |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (per leg) (t = 8.3ms, Sine) | $I_{FSM}$ | 1000 | Amps |
| MAXIMUM JUNCTION CAPACITANCE ($V_r$=5.0V) (per leg) | $C_T$ | 3000 | pF |
| MAXIMUM THERMAL RESISTANCE | $R_{\theta JC}$ | 0.2 | °C/W |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE | Top/Tstg | -55 to + 200 | °C |

**ELECTRICAL CHARACTERISTICS**

| CHARACTERISTIC | | | |
|---|---|---|---|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f$ = 120 Amps) (per leg) | | | |
| $T_J$ = 25 °C | $V_f$ | 0.99 | Volts |
| $T_J$ = 125 °C | | 0.84 | |
| MAXIMUM REVERSE CURRENT ($I_r$ @ 100 V PIV) (per leg) | | | |
| $T_J$ = 25 °C | $I_r$ | 0.6 | mA |
| $T_J$ = 125 °C | | 6 | |

**SENSITRON**

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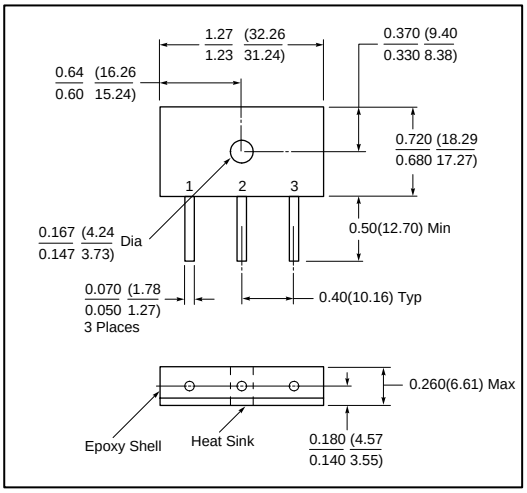
**DATA SHEET 4665, REV. A**

**MECHANICAL DIMENSIONS: In Inches / mm**



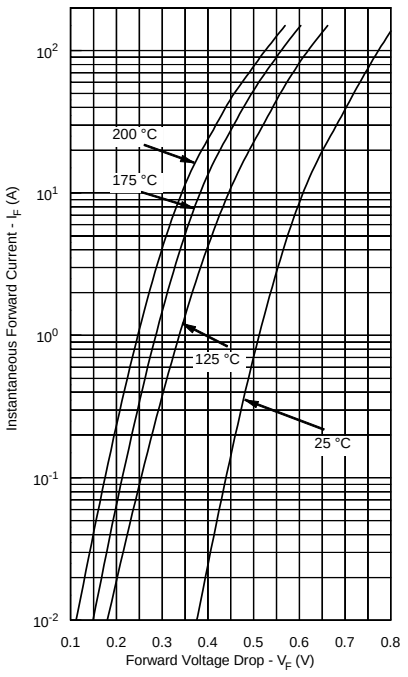

**PKG. 22**

## PINOUT TABLE

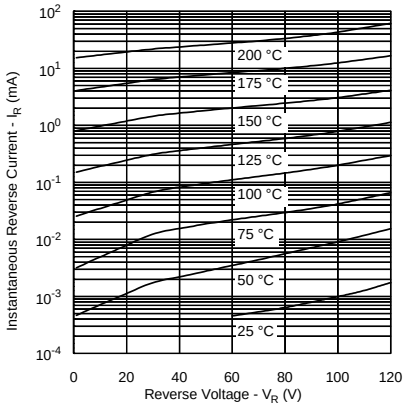
| DEVICE TYPE | PIN 1 | PIN 2 | PIN 3 |
|---|---|---|---|
| DUAL RECTIFIER/COMMON CATHODE (P) | ANODE 1 | COMMON CATHODE | ANODE 2 |
| DUAL RECTIFIER/COMMON ANODE (N) | CATHODE 1 | COMMON ANODE | CATHODE 2 |
| DUAL RECTIFIER/DOUBLER (D) | ANODE | ANODE/CATHODE | CATHODE |

Curves below are for die only

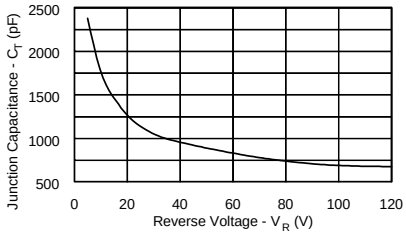
**Typical Forward Characteristics**




**Typical Reverse Characteristics**




**Typical Junction Capacitance**



**SENSITRON**

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