

**TECHNICAL DATA**  
**DATASHEET 4768, REV. B.1****HERMETIC POWER SCHOTTKY RECTIFIER****DESCRIPTION:** A 60 VOLT, 30/15 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SMD-1 PACKAGE.**MAXIMUM RATINGS**ALL RATINGS ARE @  $T_C = 25^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

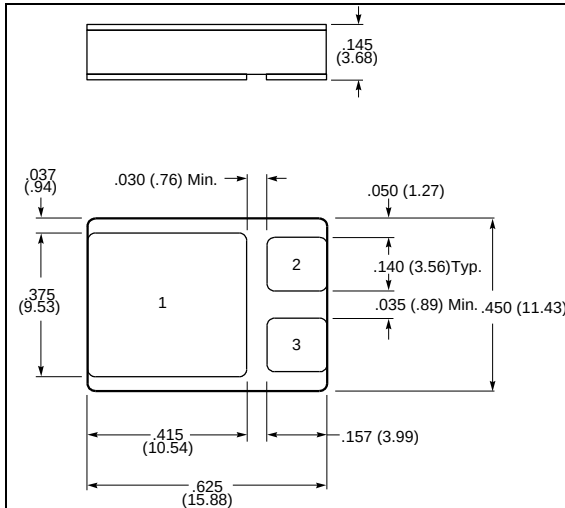
| RATING                                                                                             | SYMBOL          | MAX.            | UNITS              |
|----------------------------------------------------------------------------------------------------|-----------------|-----------------|--------------------|
| PEAK INVERSE VOLTAGE                                                                               | PIV             | 60              | Volts              |
| MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100^\circ\text{C}$ )<br>(Single)         | $I_o$           | 15              | Amps               |
| MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100^\circ\text{C}$ )<br>(Common Cathode) | $I_o$           | 30              | Amps               |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT<br>( $t = 8.3\text{ms}$ , Sine)                        | $I_{FSM}$       | 280             | Amps               |
| MAXIMUM JUNCTION CAPACITANCE ( $V_r=5\text{V}$ )                                                   | $C_T$           | 720             | pF                 |
| MAXIMUM THERMAL RESISTANCE                                                                         | $R_{\theta JC}$ | 2.65            | $^\circ\text{C/W}$ |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE                                                    | Top/Tstg        | -65 to<br>+ 175 | $^\circ\text{C}$   |

**ELECTRICAL CHARACTERISTICS**

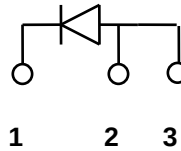
| CHARACTERISTIC                                                                                                           |       |              |       |
|--------------------------------------------------------------------------------------------------------------------------|-------|--------------|-------|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 15\text{ Amps}$ )<br>$T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$ | $V_f$ | 0.83<br>0.76 | Volts |
| MAXIMUM REVERSE CURRENT ( $I_r$ @ 60 V PIV)<br>$T_J = 25^\circ\text{C}$<br>$T_J = 125^\circ\text{C}$                     | $I_r$ | 0.4<br>30    | mA    |

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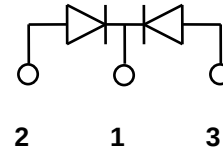
**MECHANICAL DIMENSIONS: IN Inches / mm**



**SINGLE**



**COMMON CATHODE**

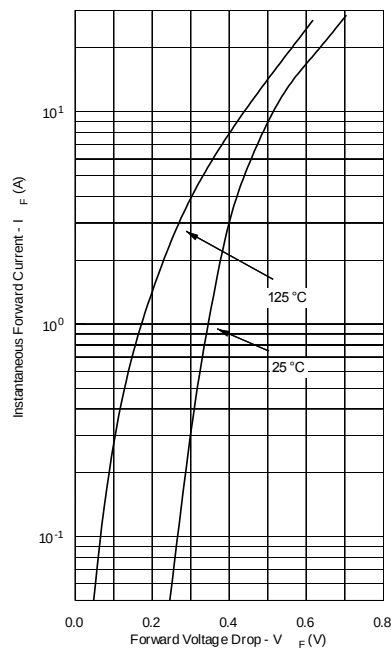


**SMD-1**

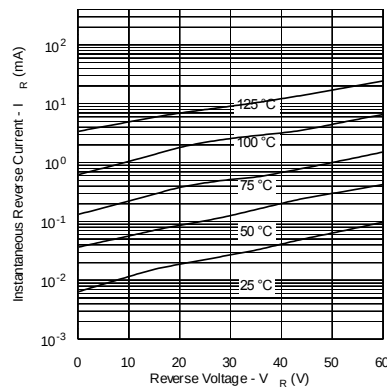
**PINOUT TABLE**

| DEVICE TYPE      | PIN 1          | PIN 2   | PIN 3   |
|------------------|----------------|---------|---------|
| SINGLE RECTIFIER | CATHODE        | ANODE   | ANODE   |
| COMMON CATHODE   | COMMON CATHODE | ANODE 1 | ANODE 2 |

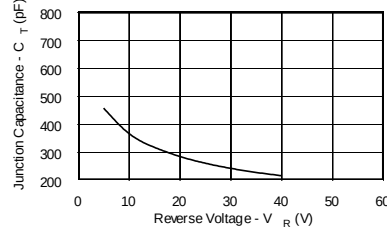
**Typical Forward Characteristics**



**Typical Reverse Characteristics**



**Typical Junction Capacitance**



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