

TECHNICAL DATA  
DATA SHEET 1057, REV. A

## HERMETIC POWER SCHOTTKY RECTIFIER

**DESCRIPTION:** A 30 VOLT, 120 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-3/3A/3B PACKAGE.

### MAXIMUM RATINGS

ALL RATINGS ARE @  $T_C = 25\text{ }^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

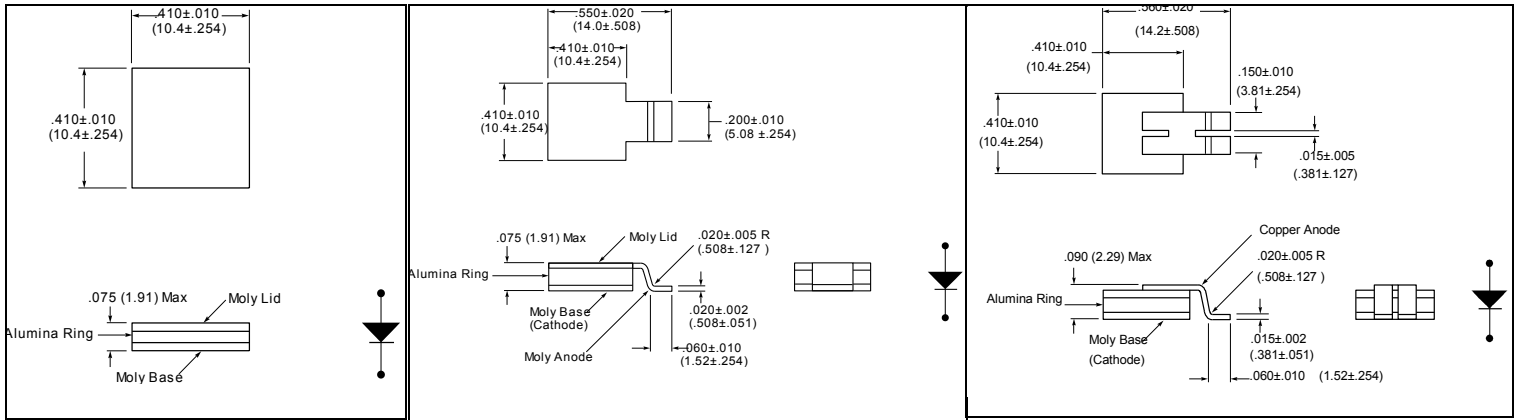
| RATING   | SYMBOL          | MAX.         | UNITS              |
|--|-----------------|--------------|--------------------|
| PEAK INVERSE VOLTAGE   | PIV             | 30           | Volts              |
| MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100\text{ }^\circ\text{C}$ ) | $I_O$           | 120          | Amps               |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=10ms, Sine)                             | $I_{FSM}$       | 1650         | Amps               |
| MAXIMUM JUNCTION CAPACITANCE ( $V_r=5\text{V}$ )                                       | $C_T$           | 6600         | pF                 |
| MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)                     | $R_{\theta JC}$ | 0.38         | $^\circ\text{C/W}$ |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE  | Top/Tstg        | -65 to + 150 | $^\circ\text{C}$   |

### ELECTRICAL CHARACTERISTICS

| CHARACTERISTIC  | SYMBOL | MAX.         | UNITS |
|---|--------|--------------|-------|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 120\text{ Amps}$ )<br>$T_J = 25\text{ }^\circ\text{C}$<br>$T_J = 125\text{ }^\circ\text{C}$ | $V_f$  | 0.53<br>0.43 | Volts |
| MAXIMUM REVERSE CURRENT ( $I_r$ @ 30 V PIV)<br>$T_J = 25\text{ }^\circ\text{C}$<br>$T_J = 125\text{ }^\circ\text{C}$                      | $I_r$  | 12<br>600    | mA    |

**SENSITRON**  
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**MECHANICAL DIMENSIONS: In Inches / mm**



**SHD-3**

**SHD-3A**

**SHD-3B**

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