

TECHNICAL DATA
DATA SHEET 847, REV. -

HIGH CURRENT HERMETIC SCHOTTKY POWER MODULE

DESCRIPTION: A 15 VOLT, 120 AMP, POWER SCHOTTKY RECTIFIER IN AN SHD-3/3A/3B PACKAGE.

MAXIMUM RATINGS

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

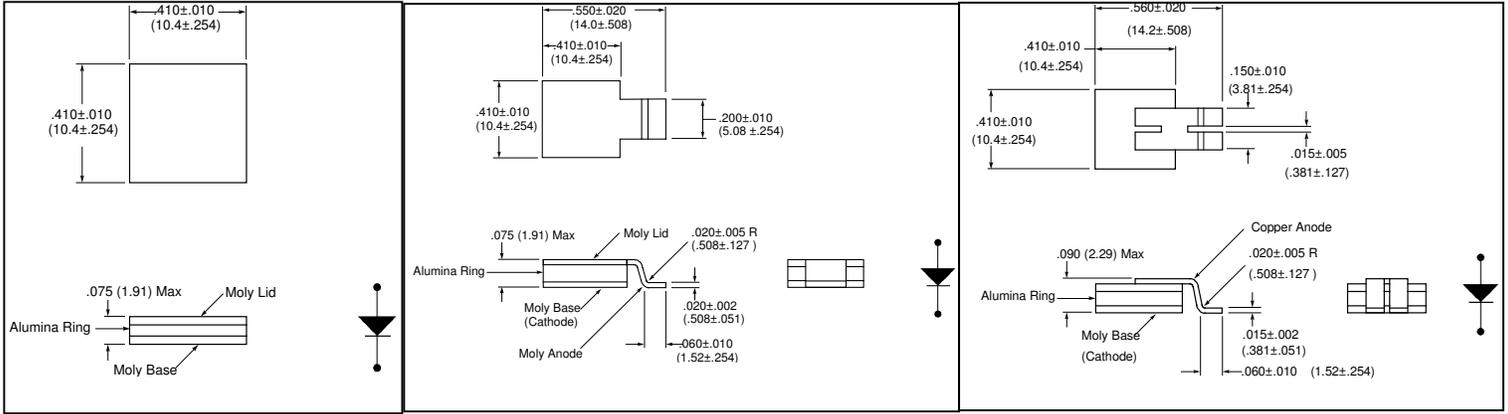
| RATING | SYMBOL | MAX. | UNITS |
|---|-----------------|-----------------|--------------------|
| PEAK INVERSE VOLTAGE | PIV | 15 | Volts |
| MAXIMUM DC OUTPUT CURRENT @ $T_C=70^\circ\text{C}$ | I_o | 120 | Amps |
| MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine) | I_{FSM} | 1650 | Amps |
| MAXIMUM JUNCTION CAPACITANCE ($V_r=5.0\text{V}$) | C_T | 7200 | pF |
| MAXIMUM THERMAL RESISTANCE | $R_{\theta JC}$ | 0.2 | $^\circ\text{C/W}$ |
| MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE | Top/Tstg | -55 to + 100 | $^\circ\text{C}$ |

ELECTRICAL CHARACTERISTICS

| CHARACTERISTIC | SYMBOL | MAX. | UNITS |
|--|--------|--------------|-------|
| MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 120\text{ Amps}$) $T_J = 25^\circ\text{C}$ $T_J = 75^\circ\text{C}$ | V_f | 0.41 0.37 | Volts |
| MAXIMUM REVERSE CURRENT ($I_r @ 15\text{ V PIV}$) $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$ | I_r | 40 2000 | mA |

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MECHANICAL DIMENSIONS: In Inches / mm



SHD-3

SHD-3A

SHD-3B

TECHNICAL DATA

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