

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.

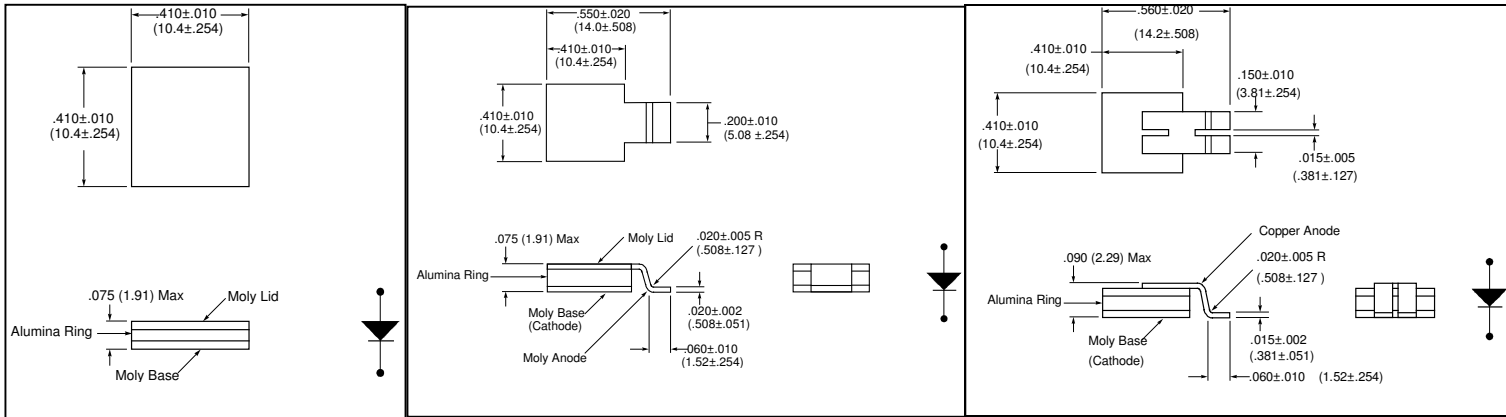
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	15	Volts
MAXIMUM DC OUTPUT CURRENT @ $T_C=70^\circ\text{C}$	I_O	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine)	I_{FSM}	1650	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5.0\text{V}$)	C_T	7200	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	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 ($I_f = 120$ 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 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

SENSITRON

SEMICONDUCTOR

TECHNICAL DATA

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