

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 °C UNLESS OTHERWISE SPECIFIED.

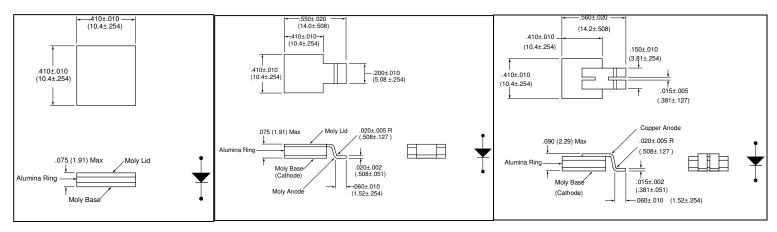
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	15	Volts
MAXIMUM DC OUTPUT CURRENT @ T <sub>C</sub> =70 °C	Io	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I <sub>FSM</sub>	1650	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5.0V)	C <sub>T</sub>	7200	pF
MAXIMUM THERMAL RESISTANCE	$R_{ hetaJC}$	0.2	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to + 100	°C

### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	(I <sub>f</sub> = 120 Amps)			
	$T_J = 25  ^{\circ}C$	$V_{f}$	0.41	Volts
	T <sub>J</sub> = 75 °C		0.37	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 15 V PIV)				
	$T_J = 25  ^{\circ}C$	l <sub>r</sub>	40	mA
	T <sub>.1</sub> = 100 °C		2000	

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



SHD-3A SHD-3B



#### **TECHNICAL DATA**

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