

TECHNICAL DATA  
DATA SHEET 846, REV. -

## HIGH CURRENT HERMETIC SCHOTTKY POWER MODULE

**DESCRIPTION:** A 15 VOLT, 150/120 AMP, POWER SCHOTTKY RECTIFIER IN A POTTED PACKAGE.

**MAXIMUM RATINGS**

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

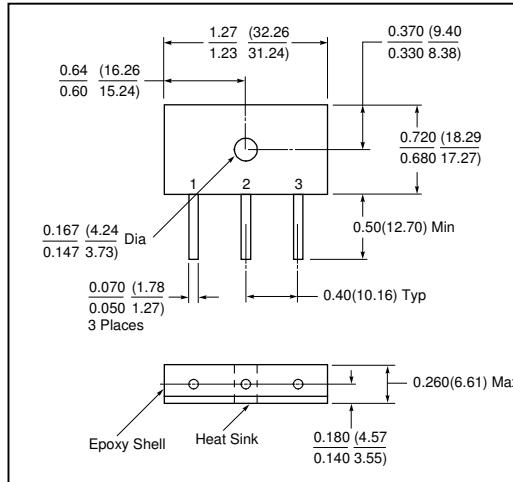
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	15	Volts
MAXIMUM DC OUTPUT CURRENT @ $T_C=70\text{ }^\circ\text{C}$ (COMMON CATHODE & COMMON ANODE) (per device)	$I_O$	150	Amps
MAXIMUM DC OUTPUT CURRENT @ $T_C=70\text{ }^\circ\text{C}$ (DOUBLER) (per device)	$I_O$	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (per leg) <span style="float: right;">(t = 8.3ms, Sine)</span>	$I_{FSM}$	1000	Amps
MAXIMUM JUNCTION CAPACITANCE (per leg) <span style="float: right;">(<math>V_r=5.0\text{V}</math>)</span>	$C_T$	7200	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	0.2	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op}/T_{stg}$	-55 to +100	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 120\text{ Amps}$ ) (per leg) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 75\text{ }^\circ\text{C}$	$V_f$	0.51 0.47	Volts
MAXIMUM REVERSE CURRENT ( $I_r$ @ 15 V PIV) (per leg) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 100\text{ }^\circ\text{C}$	$I_r$	40 2000	mA

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**MECHANICAL DIMENSIONS: IN Inches / mm**



**PKG. 22**

**PINOUT TABLE**

DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER/COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER/COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER/DOUBLER (D)	ANODE	ANODE/CATHODE	CATHODE

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