

TECHNICAL DATA  
 DATA SHEET 859, REV. -

## HIGH CURRENT HERMETIC SCHOTTKY POWER MODULE

**DESCRIPTION:** A 45 VOLT, 150/120 AMP, POWER SCHOTTKY RECTIFIER IN A POTTED PACKAGE.

### MAXIMUM RATINGS

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

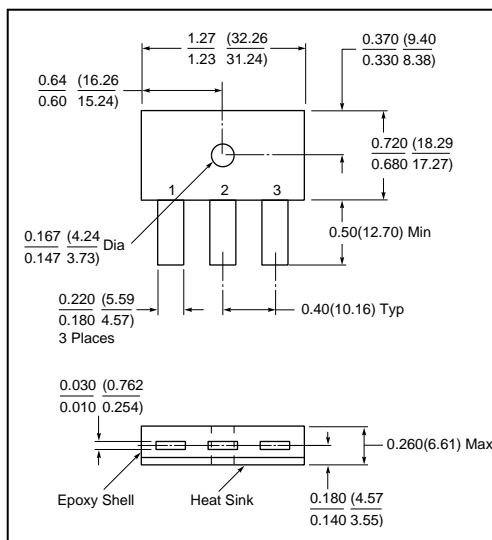
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT @ $T_C=100^\circ\text{C}$ (COMMON CATHODE & COMMON ANODE)	$I_o$	150	Amps
MAXIMUM DC OUTPUT CURRENT @ $T_C=100^\circ\text{C}$ (DOUBLER)	$I_o$	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $t = 8.3\text{ms}$ , Sine) (per leg)	$I_{FSM}$	1000	Amps
MAXIMUM JUNCTION CAPACITANCE (per leg) ( $V_r=5\text{V}$ )	$C_T$	4800	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	0.2	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 120$ Amps) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$V_f$	0.72 0.69	Volts
MAXIMUM REVERSE CURRENT ( $I_r @ 45$ V PIV) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$I_r$	9.0 420	mA

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MECHANICAL DIMENSIONS: IN Inches / mm



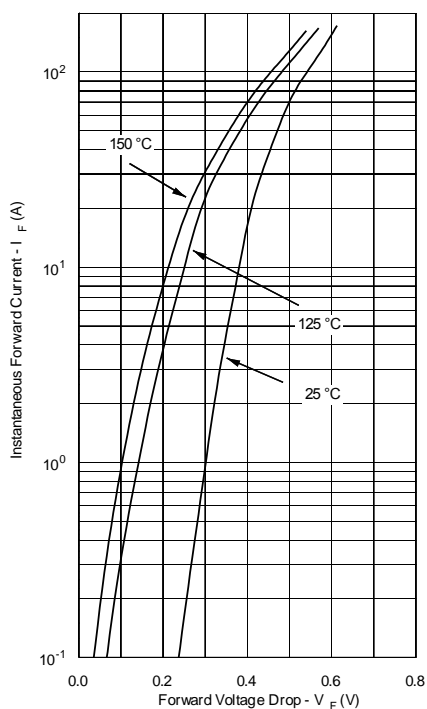
**PKG. 23**

PINOUT TABLE

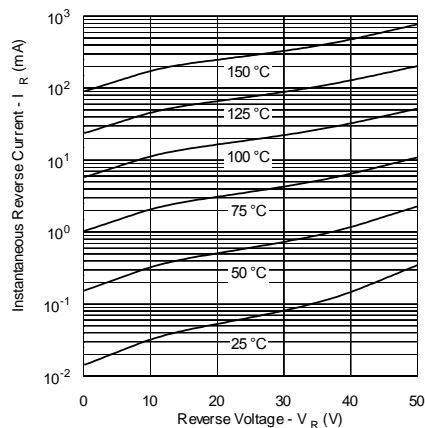
DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER/COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
DUAL RECTIFIER/COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DUAL RECTIFIER/DOUBLER (D)	ANODE	ANODE/CATHODE	CATHODE

Note:  $V_f$  Curves shown are for die only.

Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance

