

TECHNICAL DATA
DATA SHEET 744, REV. FORMERLY PART NUMBER SHD1235P/N/D

# HIGH CURRENT HERMETIC SCHOTTKY POWER MODULE

**DESCRIPTION:** A 30 VOLT, 150/120 AMP, POWER SCHOTTKY RECTIFIER IN A POTTED PACKAGE.

#### **MAXIMUM RATINGS**

ALL RATINGS ARE @  $T_C$  = 25 °C UNLESS OTHERWISE SPECIFIED.

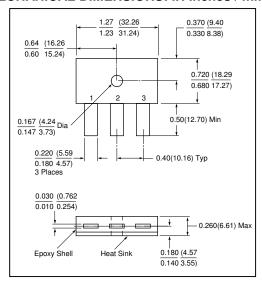
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT @ T <sub>C</sub> =100 °C (COMMON CATHODE & COMMON ANODE) (per leg)		150	Amps
MAXIMUM DC OUTPUT CURRENT @ T <sub>C</sub> =100 °C (DOUBLER) (per leg)		120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)		1000	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V) (per leg)	Ст	6600	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	0.2	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

### **ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC				
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	(I <sub>f</sub> = 120 Amps) (per leg)			
	$T_J = 25  ^{\circ}C$	$V_{f}$	0.65	Volts
	T <sub>J</sub> = 125 °C		0.55	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 30 V PIV) (per leg)				
	$T_J = 25  ^{\circ}C$	l <sub>r</sub>	12	mA
	T <sub>J</sub> = 125 °C		600	

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

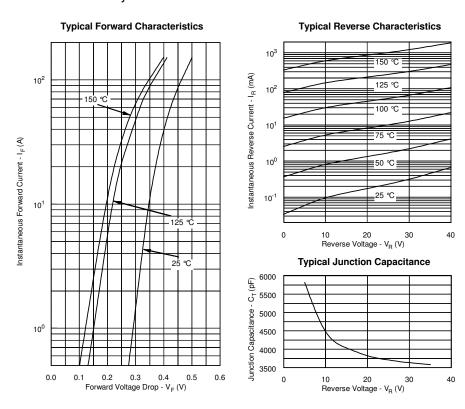


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## **PINOUT TABLE**

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<sub>f</sub> Curves shown are for die only.





#### **TECHNICAL DATA**

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