

TECHNICAL DATA
DATA SHEET 743, REV. FORMERLY PART NUMBER SHD1225P/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.

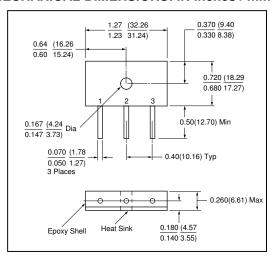
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RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT @ T _C =100 ^O C (COMMON CATHODE & COMMON ANODE) (per device)		150	Amps
MAXIMUM DC OUTPUT CURRENT @ T _C =100 ^O C (DOUBLER) (per device)		120	Amps
$\begin{array}{ll}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

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	(I _f = 120 Amps) (per leg)			
	T _J = 25 °C	V_{f}	0.65	Volts
	T _J = 125 °C		0.55	
MAXIMUM REVERSE CURRENT (I _r @ 30 V PIV) (per leg)				
	T _J = 25 °C	l _r	12	mA
	T _J = 125 °C		600	

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MECHANICAL DIMENSIONS: IN Inches / mm

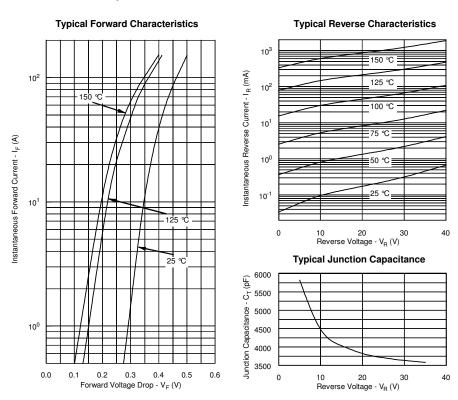


PKG. 22

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

Note: V_f Curves shown are for die only.





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