TECHNICAL DATA DATA SHEET 650, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: A 45 VOLT, 7.5 AMP, POWER SCHOTTKY RECTIFIER IN A SHD-1/1B PACKAGE.

MAXIMUM RATINGS

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

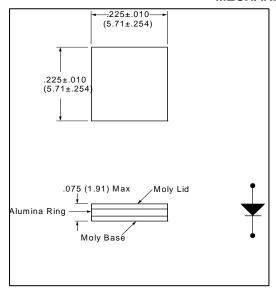
RATING / CONDITION	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	7.5	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT	I _{FSM}	140	Amps
(t=8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	400	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	3.2	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

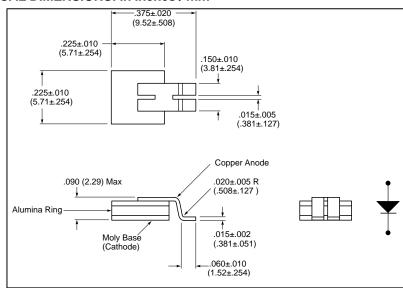
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC				
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	(I _f = 7.5 Amps)			
	T _J = 25 °C	V_{f}	0.56	Volts
	T _J = 125 °C	- 1	0.51	
MAXIMUM REVERSE CURRENT (I _r @ 45V PIV)				
	T _J = 25 °C	I _r	0.75	mA
	T _{.1} = 125 °C		35	

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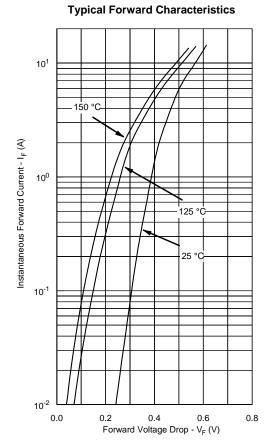
MECHANICAL DIMENSIONS: In Inches / mm

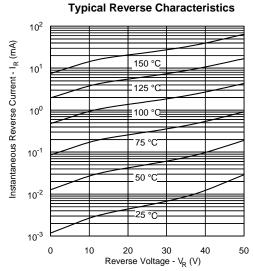


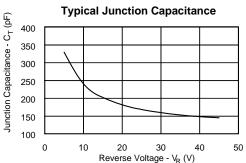


SHD-1

SHD-1B









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