SENSITRON SEMICONDUCTOR

TECHNICAL DATA DATA SHEET 748, REV. A

POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: 45 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-1/1B PACKAGE.

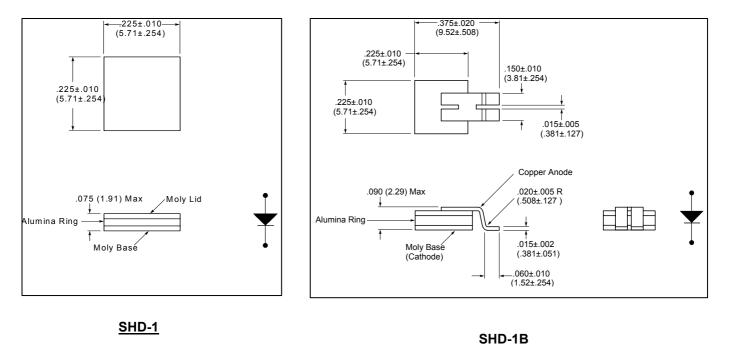
MAXIMUM RATINGS ARE @ T _c = 25	ALL RATINGS ARE @ T _c = 25 °C UNLESS OTHERWISE SPECIFIED.				
RATING	SYMBOL	MAX.	UNITS		
PEAK INVERSE VOLTAGE	PIV	45	Volts		
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_c =100 $^{\circ}$ C)	Ι _ο	15	Amps		
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT	I _{FSM}	280	Amps		
(t=8.3ms, Sine)					
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	800	pF		
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	R _{0JC}	0.85	°C/W		
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C		

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP,	, Pulsed (I _f = 15 Amps)			
	T _J = 25 °C	V _f	0.56	Volts
	T _J = 125 °C		0.51	
MAXIMUM REVERSE CURRENT	(I _r @ 45V)			
	T _J = 25 °C	l _r	1.5	mA
	T _J = 125 °C		70	

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MECHANICAL DIMENSIONS: In Inches / mm

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Note: V_F Curves are shown for die only.

