

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

ALL RATINGS ARE @ $T_{\rm C}$ = 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 ^o C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT		280	Amps
(t=8.3ms, Sine)			
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	800	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)		0.85	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

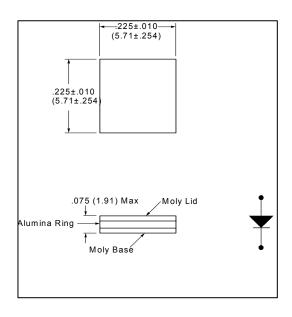
CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 15 Amps)				
	T _J = 25 °C	V_{f}	0.56	Volts
	T _J = 125 °C	- 1	0.51	
MAXIMUM REVERSE CURRENT	(I _r @ 45V)			
	T _J = 25 °C	I _r	1.5	mA
	T _J = 125 °C		70	

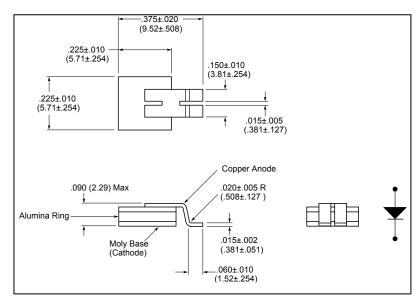
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SENSITRON

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MECHANICAL DIMENSIONS: In Inches / mm





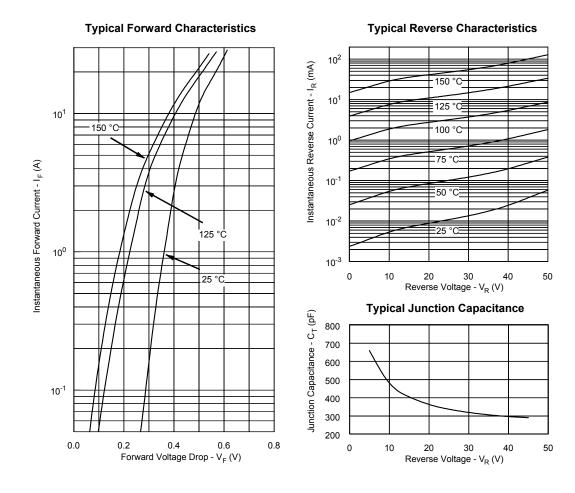
SHD-1B

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Note: V_F Curves are shown for die only.



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