TECHNICAL DATA DATA SHEET 783, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER

DESCRIPTION: 100 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A SHD-1/1B PACKAGE.

MAXIMUM RATINGS

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

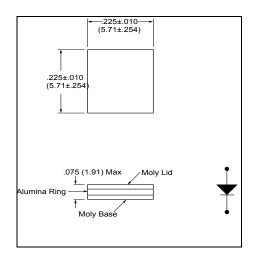
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RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	280	Amps
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	500	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	1.7	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Тор	-65 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	°C

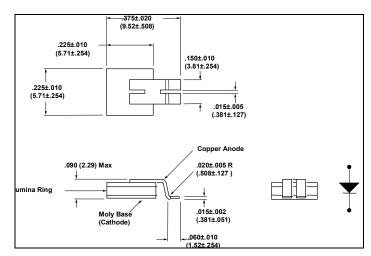
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulse	ed (I _f = 15 Amps)			
	T _J = 25 °C	$V_{\rm f}$	0.86	Volts
	T _J = 125 °C	- 1	0.67	
MAXIMUM REVERSE CURRENT (I _r @ 100V F	PIV)			
	T _J = 25 °C	l _r	0.55	mA
	T _J = 125 °C		12	

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MECHANICAL DIMENSIONS: In Inches / mm





SHD-1B

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