DATA SHEET 5085, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

DESCRIPTION: A 45-VOLT, 120 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC CERAMIC SHD-3/3B HIGH PROFILE PACKAGE.

MAXIMUM RATINGS

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

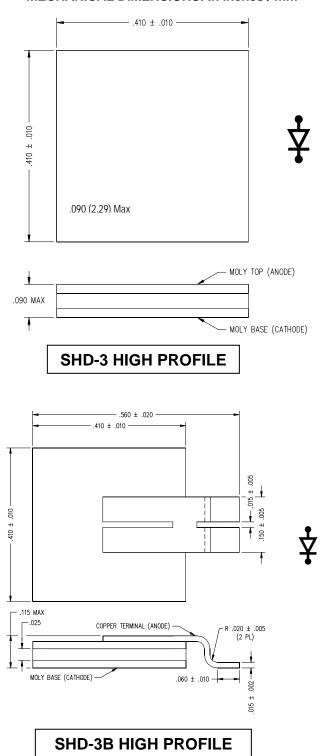
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RATING	SYMBOL	MAX.	UNITS	
PEAK INVERSE VOLTAGE	PIV	45	Volts	
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	120	Amps	
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I _{FSM}	1650	Amps	
MAXIMUM JUNCTION CAPACITANCE (V _r =5V)	C _T	4800	pF	
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	0.20	°C/W	
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C	

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 120 Amps)			
T _J = 25 °C	V_{f}	0.66	Volts
T _J = 125 °C	•1	0.59	
MAXIMUM REVERSE CURRENT (I _r @ 45V PIV)			
T _J = 25 °C	I_r	2.4	mA
T _J = 125 °C		90	

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MECHANICAL DIMENSIONS: In Inches / mm





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