TECHNICAL DATA DATA SHEET 576, REV. B

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

DESCRIPTION: 45 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-2/2B PACKAGE.

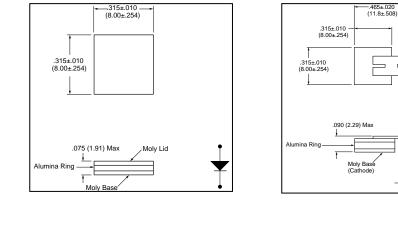
MAXIMUM RATINGS ALL RATINGS ARE @ T_c = 25 °C UNLESS OTHERWISE SPECIFIED. RATING UNITS SYMBOL MAX. PEAK INVERSE VOLTAGE PIV 45 Volts MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c = 100$ °C) 30 Amps \mathbf{I}_{0} MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine) 570 Amps I_{FSM} MAXIMUM JUNCTION CAPACITANCE $(V_r = 5V)$ Ст 1600 pF 0.90 MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode) $R_{\theta JC}$ °C/W MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE Top/Tstg °C -65 to +175

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC				
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 30 \text{ Amps}$)				
	T _J = 25 °C	V _f	0.64	Volts
	T _J = 125 °C		0.57	
MAXIMUM REVERSE CURRENT (I, @ 45 V PIV)				
	T _J = 25 °C	l _r	0.8	mA
	T _J = 125 °C		30	

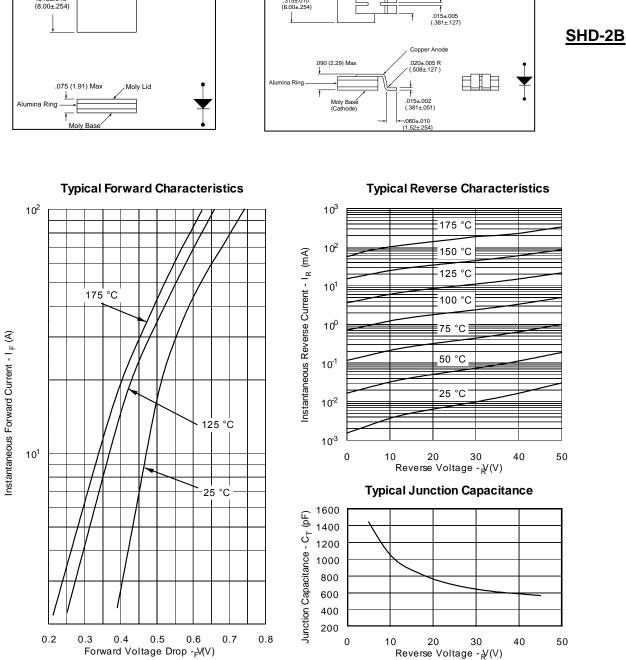
.150±.010 (3.81±.254)

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MECHANICAL DIMENSIONS: In Inches / mm

SHD-2



SHD115422 SHD115422B

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