TECHNICAL DATA DATA SHEET 5144, REV. C.2

HERMETIC POWER SCHOTTKY RECTIFIER 175°C Maximum Operation Temperature

Add suffix "S" to the part number(s) for S-100 Screening.

DESCRIPTION: A 100V, 15A, POWER SCHOTTKY RECTIFIER IN HERMETIC SHD-1/1B HP PACKAGE.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	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	600	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ ext{ heta}JC}$	1.7	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

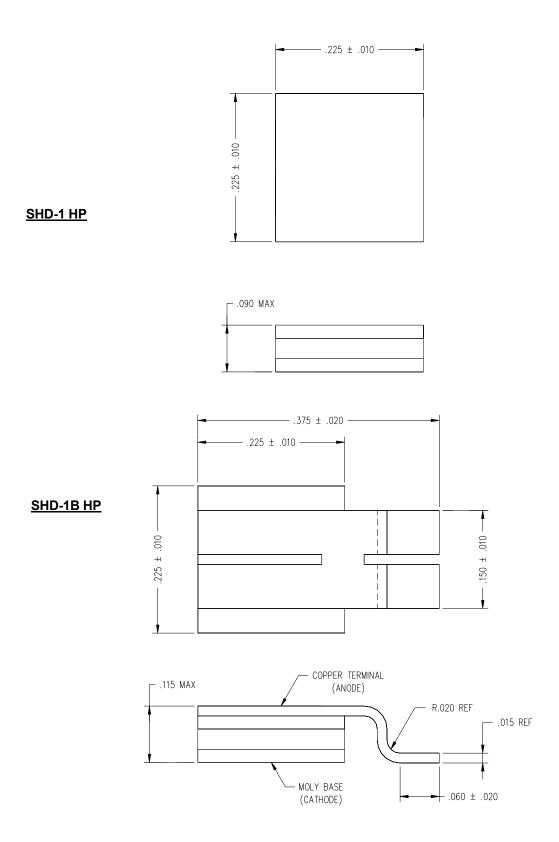
ALL RATINGS ARE @ $T_{\rm C}$ = 25 °C UNLESS OTHERWISE SPECIFIED.

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 15 Amps)			
T _J = 25 °C	V _f	0.84	Volts
T _J = 125 °C	-,	0.68	
MAXIMUM REVERSE CURRENT (Ir @ 100V PIV)			
T _J = 25 °C	l _r	0.35	mA
T _J = 125 °C		8.0	

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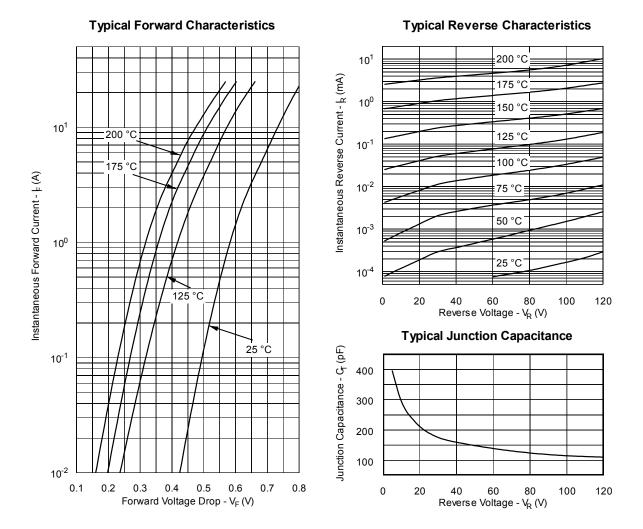
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MECHANICAL DIMENSIONS: In Inches / mm



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