

TECHNICAL DATA DATASHEET 5374, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Low Forward Voltage Drop

Applications:

• Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode

Features:

- Low Forward Voltage Drop
- High Efficiency
- High Frequency Application
- Guard Ring for Enhanced Durability and Long Term Reliability

MAXIMUM RATINGS

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

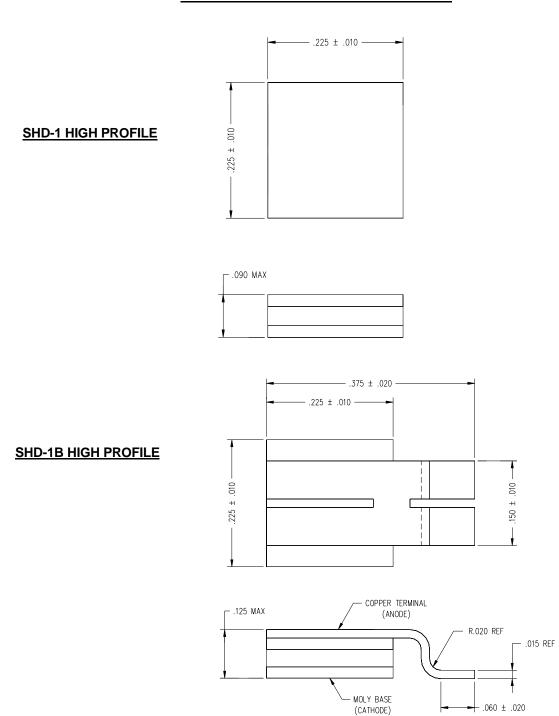
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	150	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	280	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	1.7	°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, Pulsed (I _f = 15 Amps)				
$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$		V_{f}	0.88 0.72	Volts
MAXIMUM REVERSE CURRENT (I _r @ 150V PIV)				
$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$		l _r	0.5 8	mA
MAXIMUM JUNCTION CAPACITANCE ((V _r =5V)	Ст	500	pF

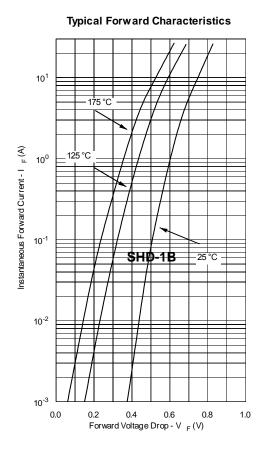
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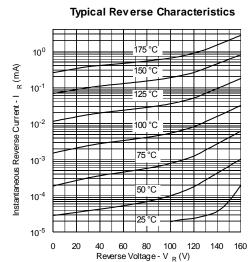
MECHANICAL DIMENSIONS: In Inches / mm

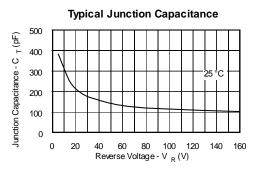


PINOUT TABLE	SHD176245		
TYPE	PIN 1 (Base)	PIN 2	
SINGLE RECTIFIER	CATHODE	ANODE B	
in a Surface Mount Package			

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