

TECHNICAL DATA DATA SHEET 4559, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

Applications:

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

Features:

- Very 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.

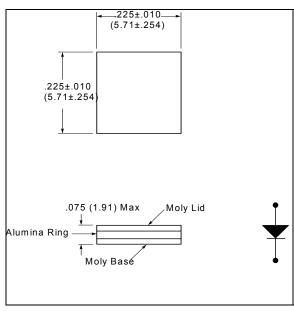
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	7.5	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)		140	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	1.7	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Тор	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 150	°C

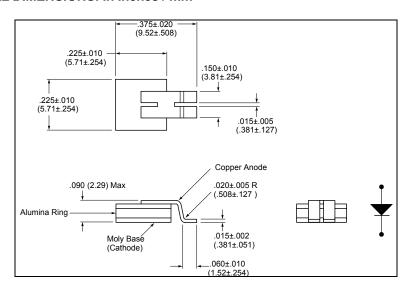
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	(I _f = 7.5 Amps)				
	$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$		V_{f}	0.49 0.39	Volts
MAXIMUM REVERSE CURRENT (Ir @ 30V PIV))				
	$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$		l _r	1 50	mA
MAXIMUM JUNCTION CAPACITANCE		(V _r =5V)	Ст	550	pF

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MECHANICAL DIMENSIONS: In Inches / mm





SHD-1B

SHD-1

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