TECHNICAL DATA DATA SHEET 4562, REV. B

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	15	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_C =70 $^{\circ}$ C)	Io	7.5	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	140	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	1.7	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Тор	-65 to + 100	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 100	°C

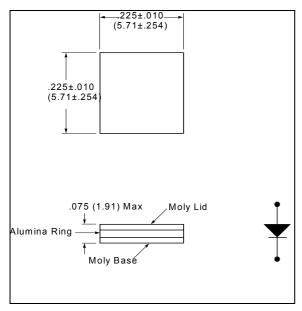
ELECTRICAL CHARACTERISTICS

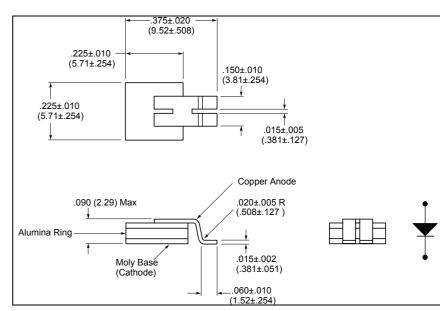
CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 7.5 Amps)				
T _J = 25 °C T _J = 75 °C		V_{f}	0.37 0.33	Volts
MAXIMUM REVERSE CURRENT (I _r @ 15V PIV)				
T _J = 25 °C T _J = 100 °C		I _r	3.5 170	mA
MAXIMUM JUNCTION CAPACITANCE	(V _r =5V)	C _T	600	pF

SENSITRON

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MECHANICAL DIMENSIONS: In Inches / mm





<u>SHD-1</u>

SHD-1B

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Note: Vf characteristics are for bare die only.

