

TECHNICAL DATA
DATA SHEET 4562, REV. D

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 @ $T_c = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

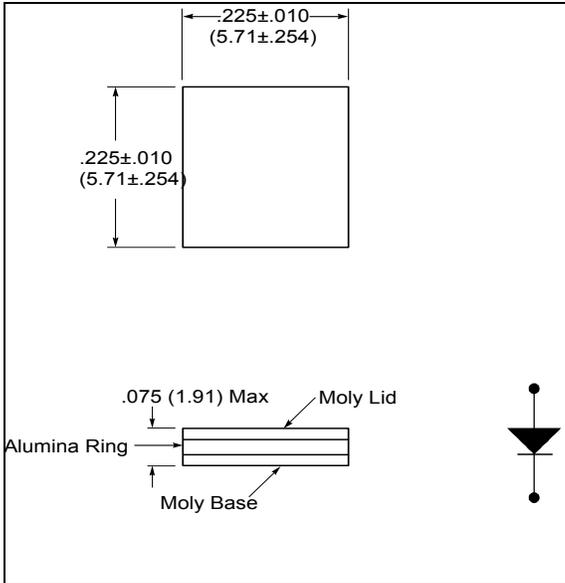
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	15	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c=70^\circ\text{C}$)	I_o	7.5	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=8.3\text{ms}$, Sine)	I_{FSM}	140	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	3.2	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	T_{op}	-65 to + 175	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	T_{stg}	-65 to + 175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

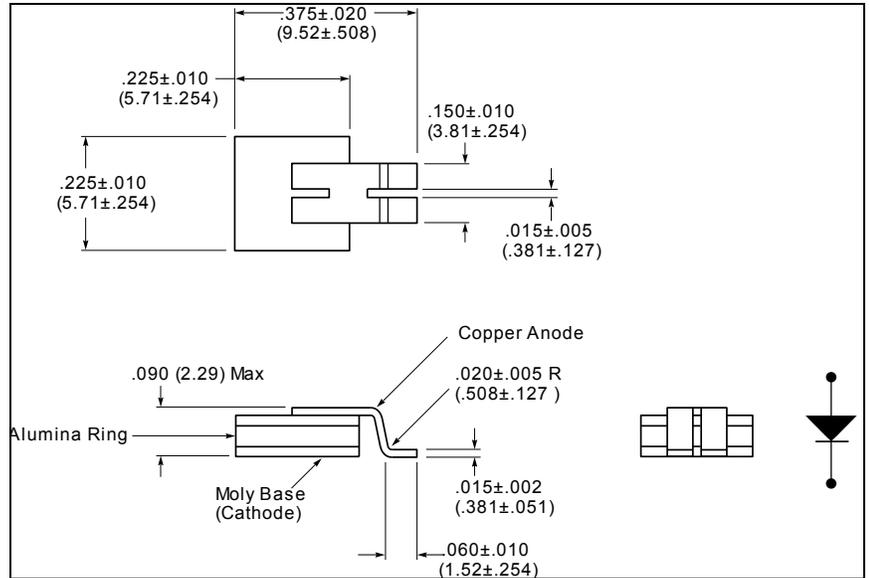
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 7.5$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 75^\circ\text{C}$	V_f	0.37 0.33	Volts
MAXIMUM REVERSE CURRENT (I_r @ 15V PIV) $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$	I_r	3.5 170	mA
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	600	pF

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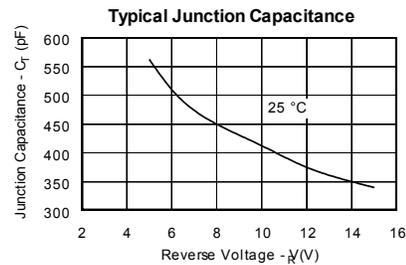
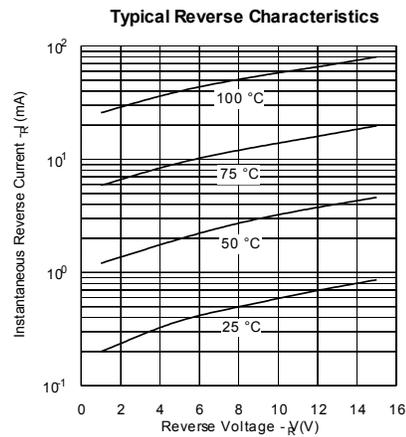
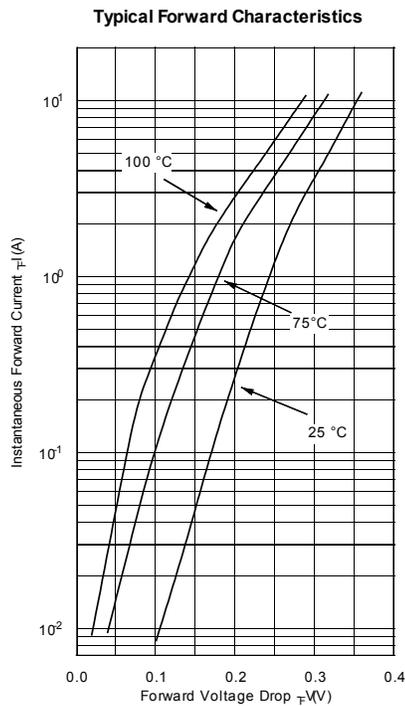
MECHANICAL DIMENSIONS: In Inches / mm



SHD-1



SHD-1B



Note: V_f characteristics are for bare die only.

SENSITRON

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