

TECHNICAL DATA
DATA SHEET 6139, REV -**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 RATINGSALL RATINGS ARE @ $T_c = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

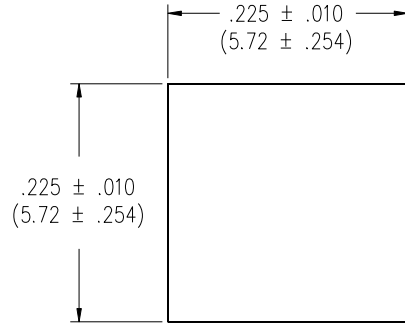
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	60	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c=100^\circ\text{C}$)	I_o	75	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=8.3\text{ms}$, Sine)	I_{FSM}	500	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	1.07	$^\circ\text{C}/\text{W}$
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

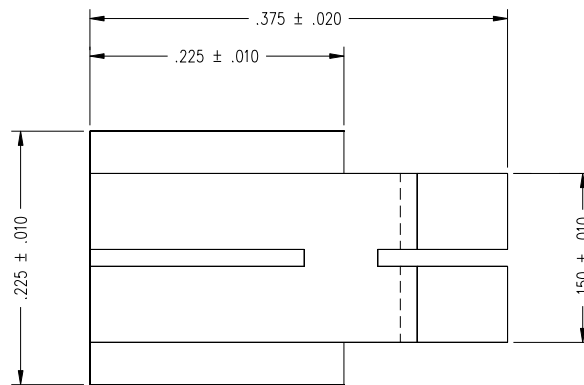
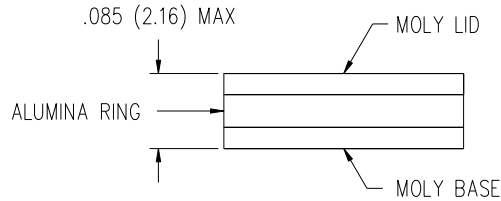
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 75$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.82 0.70	Volts
MAXIMUM REVERSE CURRENT (I_r @ 60V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	1 275	mA
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	2200	pF

MECHANICAL DIMENSIONS*: In Inches / mm

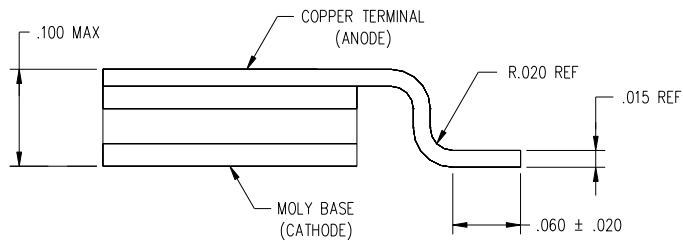
*Dimensions shown are with solder dipping.



SHD-1



SHD-1B



SENSITRON

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