

**SENSITRON**  
**SEMICONDUCTOR**

TECHNICAL DATA  
DATA SHEET 4121, REV. D

**POWER SCHOTTKY RECTIFIER**  
**Very Low Voltage Drop**

(S-100 for JANTXV equivalent screening and SS for JANS equivalent screening is available)

**DESCRIPTION:** A 60 VOLT, 120 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-3/3B PACKAGE.

**MAXIMUM RATINGS**

ALL 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 @ $T_c=100^\circ\text{C}$ )	$I_o$	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $t=8.3\text{ms}$ , Sine)	$I_{FSM}$	1450	Amps
MAXIMUM JUNCTION CAPACITANCE ( $V_f=5\text{V}$ )	$C_T$	5000	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.38	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +175	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

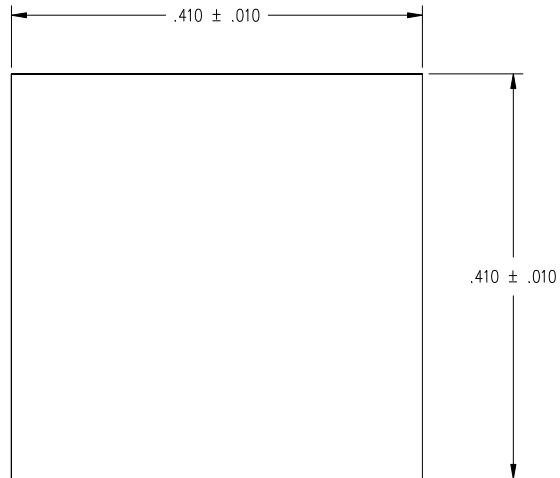
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 120$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$V_f$	0.83 0.78	Volts
MAXIMUM REVERSE CURRENT ( $I_r$ @ 60V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	$I_r$	3 180	mA

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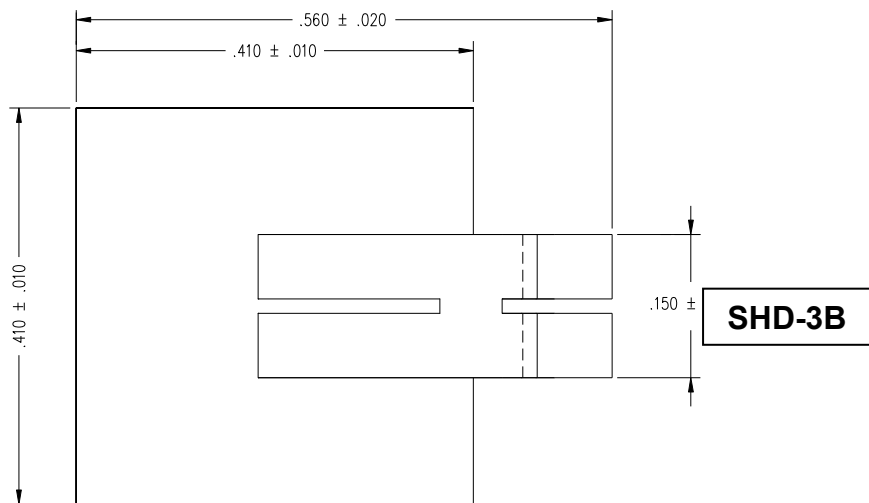
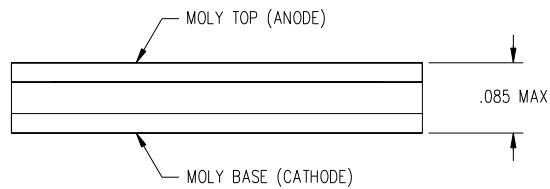
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**MECHANICAL DIMENSIONS\*: In Inches / mm**

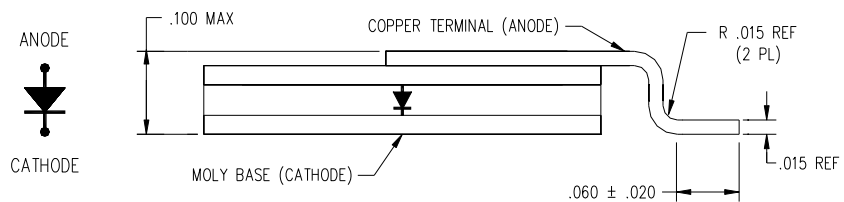
\*Dimensions shown are with solder dipping.



**SHD-3**



**SHD-3B**



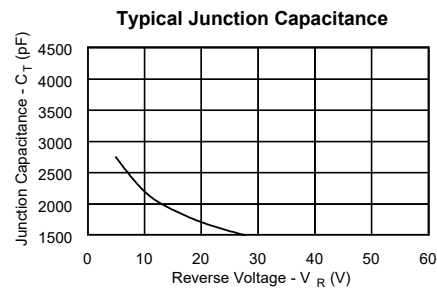
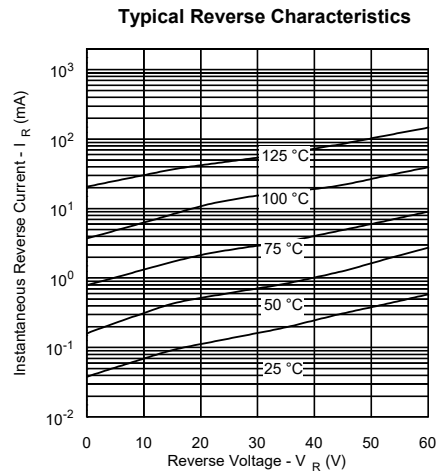
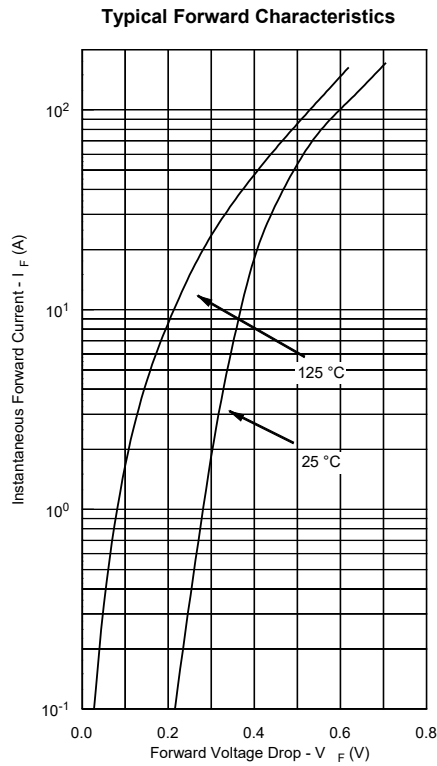
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PINOUT TABLE

TYPE	PIN 1 (Base)	PIN 2
SINGLE RECTIFIER	CATHODE	ANODE

Note: The Vf curves are for unpackaged die only



PART ORDERING INFORMATION:

**SHD114623XXX**

↓  
Part Number

**Screening Level (blank is no screening):**

Suffix	Screened in Accordance with:
blank	No screening level
S	MIL-PRF-19500, TXV/V Level
SS	MIL-PRF-19500, S Level

**QCI (blank is no QCI):**

Suffix	Inspection in Accordance with:
blank	No QCI
Q	MIL-PRF-19500 QCI

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