

TECHNICAL DATA DATA SHEET 4153, REV. B

# HERMETIC POWER ULTRAFAST RECTIFIER

**DESCRIPTION:** A 400 VOLT, 70 AMP, 60 NANOSECOND POWER ULTRAFAST RECTIFIER IN A HERMETIC SHD-2 / 2A / 2B PACKAGE.

- ADD AN "S" TO THE END OF THE PART NUMBER FOR S-100 SCREENING
- R denotes Reverse Polarity Moly base is Anode, Tab is Cathode

#### **MAXIMUM RATINGS**

ALL RATINGS ARE @  $T_A$  = 25 °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	400	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T <sub>C</sub> =100 <sup>O</sup> C)	Io	70	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$		°C/W
Standard Polarity (Cathode base)		0.48	
Reverse Polarity (Anode base)		0.60	
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to +175	°C

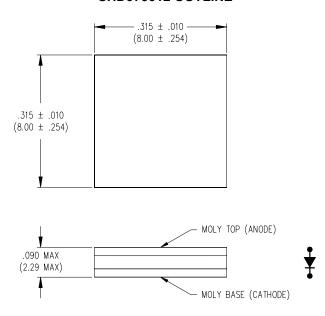
#### **ELECTRICAL CHARACTRISTICS**

CHARACTRISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $T_C = 25$ °C ( $I_f = 70$ Amps)	$V_{f}$	1.35	Volts
MAXIMUM FORWARD VOLTAGE DROP, Pulsed T <sub>C</sub> = 125 °C (I <sub>f</sub> = 70 Amps)	$V_{f}$	1.25	Volts
MAXIMUM REVERSE CURRENT $T_C = 25  ^{\circ}\text{C}  I_{rr}  @  400  \text{PIV}$	Im	100	μА
MAXIMUM REVERSE CURRENT $T_C = 125 ^{\circ}\text{C}  I_{rr}  \textcircled{2}  400  \text{PIV}$	Im	2.0	mA
MAXIMUM REVERSE RECOVERY TIME $(I_f = 0.5A, I_r = 1.0A, I_{rr} = 0.25A)$	t <sub>rr</sub>	60	ns

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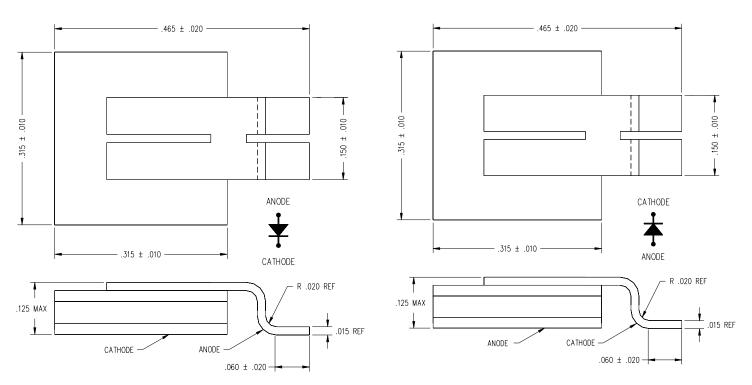
#### **MECHANICAL DIMENSIONS: In Inches / mm**

#### SHD375612 OUTLINE



## SHD375612B OUTLINE

## SHD375612BR OUTLINE



#### **SENSITRON**

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