

TECHNICAL DATA  
DATA SHEET 5291, REV A

## HERMETIC POWER ULTRAFAST RECTIFIER

**DESCRIPTION:** A 200 VOLT, 40 AMP, 35 NANOSECOND POWER ULTRAFAST RECTIFIER IN A HERMETIC SHD-2 / 2B PACKAGE.

- ADD AN "S" TO THE END OF THE PART NUMBER FOR S-100 SCREENING

### MAXIMUM RATINGS

ALL RATINGS ARE @  $T_A = 25\text{ }^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

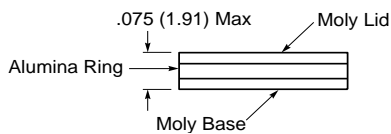
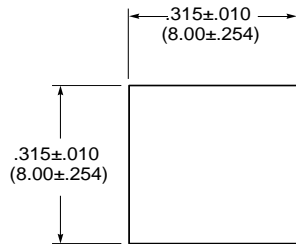
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	200	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C=100\text{ }^\circ\text{C}$ )	$I_o$	40	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.60	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +175	$^\circ\text{C}$

### ELECTRICAL CHARACTERISTICS

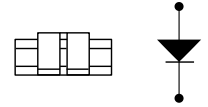
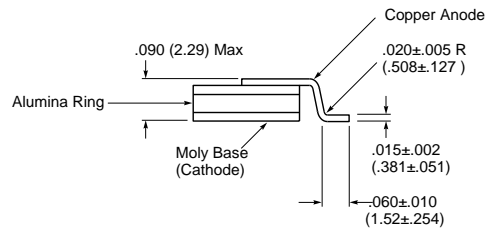
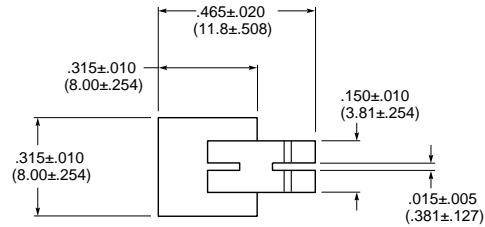
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $T_C = 25\text{ }^\circ\text{C}$ ( $I_f = 40\text{ Amps}$ )	$V_f$	1.05	Volts
MAXIMUM REVERSE CURRENT $T_C = 25\text{ }^\circ\text{C}$	$I_{rr}$	100	$\mu\text{A}$
MAXIMUM REVERSE RECOVERY TIME	$t_{rr}$	35	ns

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**MECHANICAL DIMENSIONS: In Inches / mm**



**SHD-2**



**SHD-2B**

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