

TECHNICAL DATA
DATA SHEET 4155, REV. B

HERMETIC POWER ULTRAFAST RECTIFIER

DESCRIPTION: A 200 VOLT, 40 AMP, 35 NANOSECOND POWER ULTRAFAST RECTIFIER IN A HERMETIC HIGH PROFILE 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	$^\circ\text{C}$

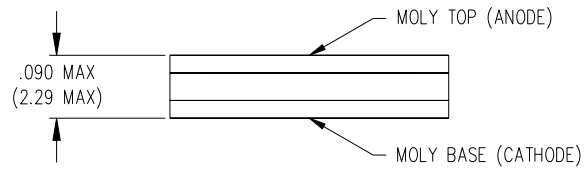
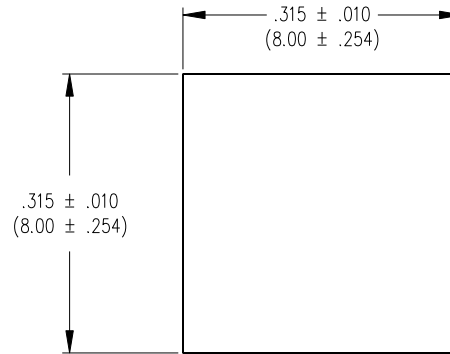
ELECTRICAL CHARACTERISTICS

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	μA
MAXIMUM REVERSE RECOVERY TIME	t_{rr}	35	ns

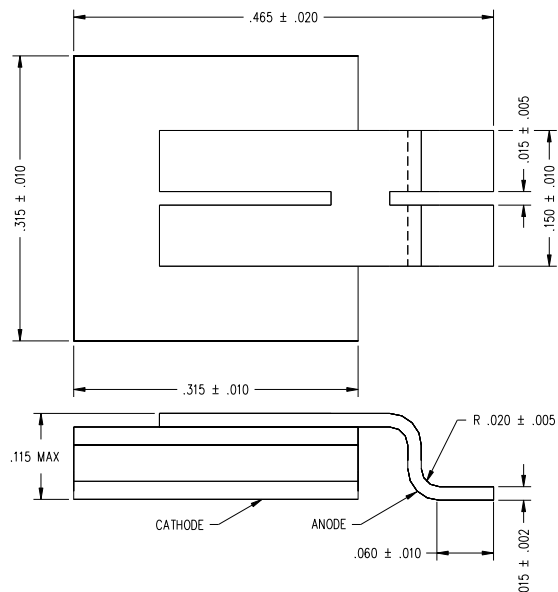
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MECHANICAL DIMENSIONS: In Inches / mm

SHD-2 high profile



SHD-2B high profile



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