

TECHNICAL DATA
DATA SHEET 4237, REV. A

HERMETIC POWER ULTRAFAST RECTIFIER

DESCRIPTION: A 1000 VOLT, 30 AMP, 90 NANOSECOND HERMETIC POWER ULTRAFAST RECTIFIER IN A SHD-2 / 2B PACKAGE.

MAXIMUM RATINGS

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	1000	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C = 100^\circ\text{C}$)	I_O	30	Amps
MAXIMUM REVERSE RECOVERY TIME ($I_f = 0.5\text{A}$, $I_r = 1.0\text{A}$, $I_{rr} = 0.25\text{A}$)	t_{rr}	90	ns
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.45	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to +175	°C

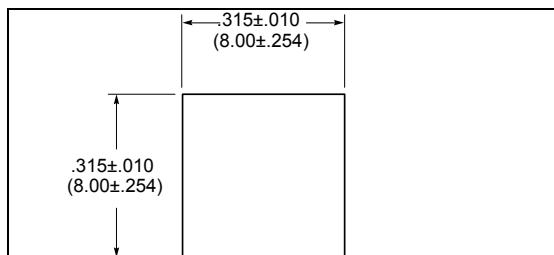
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC				
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	$T_C = 25^\circ\text{C}$ ($I_f = 30\text{ Amps}$)	V_f	1.85	Volts
MAXIMUM FORWARD VOLTAGE DROP, Pulsed	$T_C = 125^\circ\text{C}$ ($I_f = 30\text{ Amps}$)	V_f	1.65	Volts
MAXIMUM REVERSE CURRENT	$T_C = 25^\circ\text{C}$ I_{rr} @ 1000 PIV	I_{rr}	50	μA
MAXIMUM REVERSE CURRENT	$T_C = 125^\circ\text{C}$ I_{rr} @ 1000 PIV	I_{rr}	2	mA

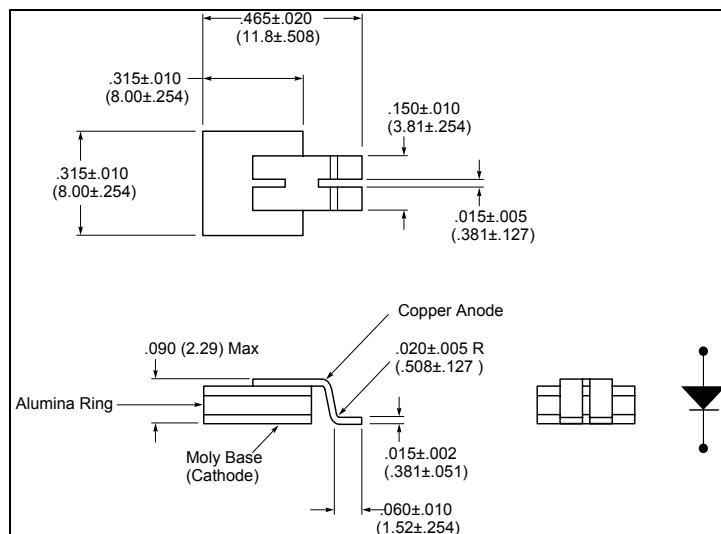
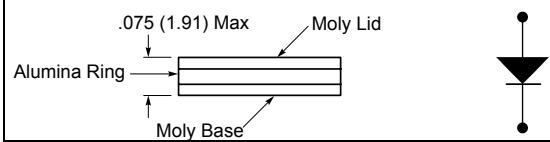
SENSITRON

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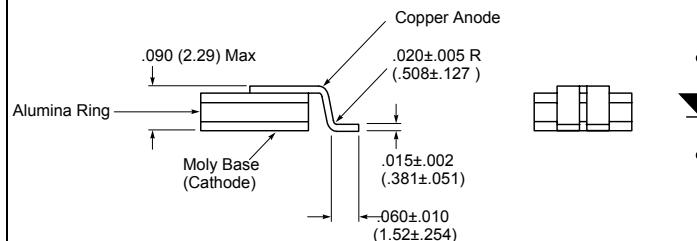
MECHANICAL DIMENSIONS: In Inches / mm



SHD-2



SHD-2B



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