
TECHNICAL DATA
DATA SHEET 181, REV. B
Formerly SHD3166/B

HERMETIC POWER ULTRAFAST RECTIFIER

DESCRIPTION: A 200 VOLT, 25 AMP, HERMETIC POWER ULTRAFAST RECTIFIER IN A SHD-1/1B PACKAGE.

MAXIMUM RATINGS

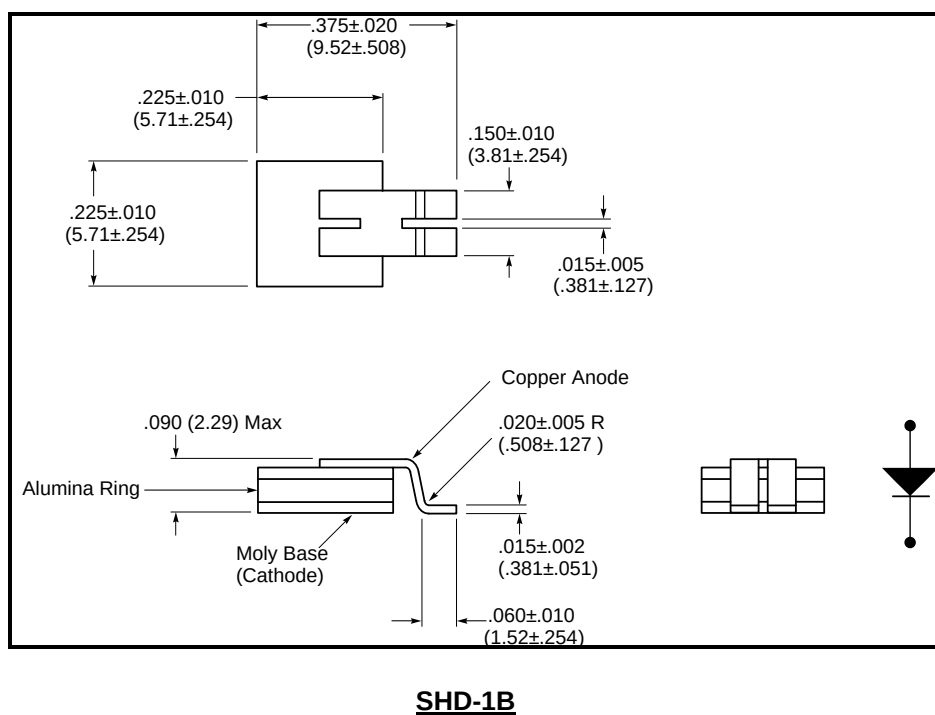
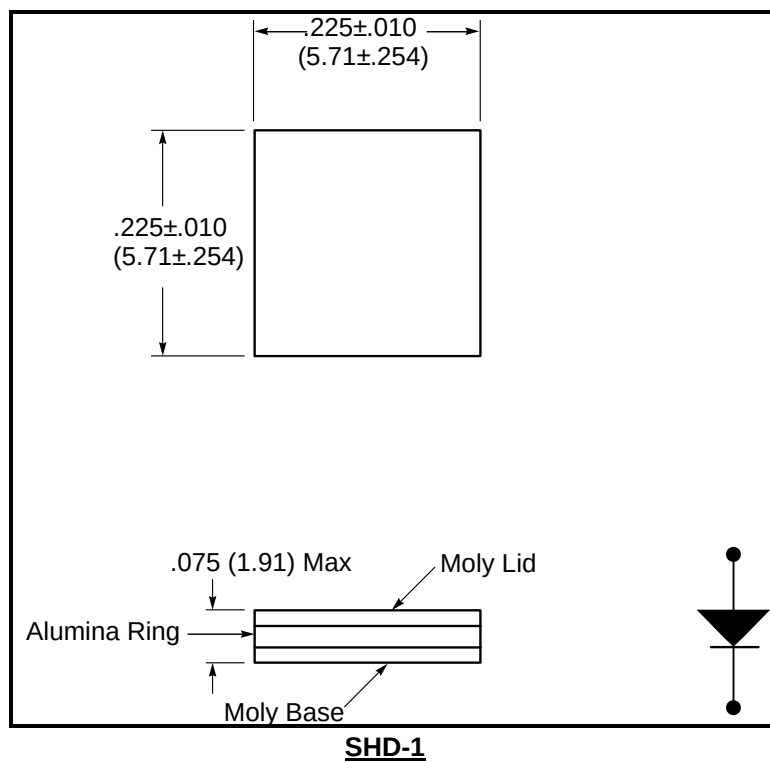
All ratings are @ $T_A = 25^\circ\text{C}$ unless otherwise specified

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	200	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_C = 100^\circ\text{C}$)	I_O	25	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}	35	nsec
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.6	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to + 150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $T_C = 25^\circ\text{C}$ ($I_f = 25\text{Amps}$)	V_f	1.06	Volts
MAXIMUM FORWARD VOLTAGE DROP, Pulsed $T_C = 125^\circ\text{C}$ ($I_f = 25\text{Amps}$)	V_f	0.98	Volts
MAXIMUM REVERSE CURRENT $T_C = 25^\circ\text{C}$ I_r @ 200 PIV	I_r	25	μA
MAXIMUM REVERSE CURRENT $T_C = 125^\circ\text{C}$ I_r @ 200 PIV	I_r	1.0	mA
CAPACITANCE $c = 25^\circ\text{C}$ $V_r = 10\text{V}$, $f = 1\text{MHz}$	C_T	160	pF

MECHANICAL DIMENSIONS: In Inches / mm



SENSITRON
DATA SHEET 181, REV. B

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