

TECHNICAL DATA
DATA SHEET 628, REV. B
Formerly part number SHD1154/A/B

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: 100 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-2/2B PACKAGE.

MAXIMUM RATINGS

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

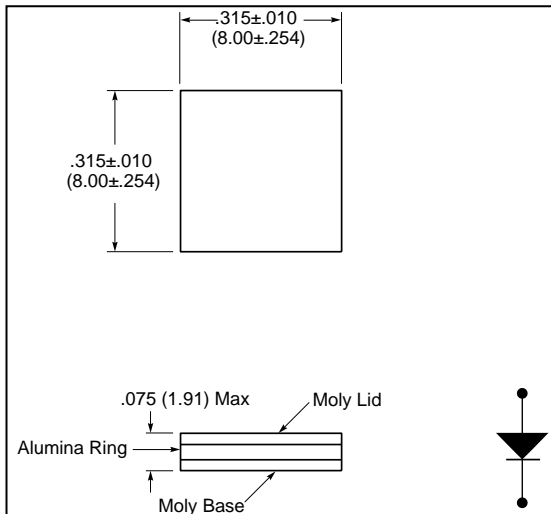
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT @ $T_c=100^\circ\text{C}$	I_o	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine) (per leg)	I_{FSM}	200	Amps
MAXIMUM THERMAL RESISTANCE (per leg)	$R_{\theta JC}$	0.7	$^\circ\text{C/W}$
MAXIMUM JUNCTION TEMPERATURE RANGE	Top	-65 to + 175	$^\circ\text{C}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

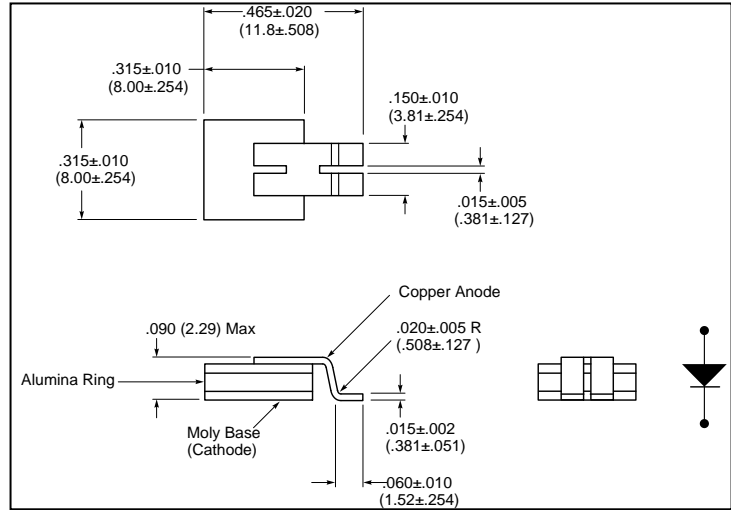
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 45$ Amps) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.89 0.70	Volts
MAXIMUM REVERSE CURRENT (I_r @ 100V PIV) (per leg) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	1.5 20	mA
MAXIMUM JUNCTION CAPACITANCE ($V_r = 5\text{V}$) (per leg)	C_T	1400	pF

SENSITRON
DATA SHEET 628, REV. B

MECHANICAL DIMENSIONS: In Inches / mm



SHD-2



SHD-2B

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