

TECHNICAL DATA
DATA SHEET 5214, REV B

HERMETIC SCHOTTKY POWER RECTIFIER Low Voltage Drop

DESCRIPTION: A 45 VOLT, 60 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-2/2B HP PACKAGE.

MAXIMUM RATINGS

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

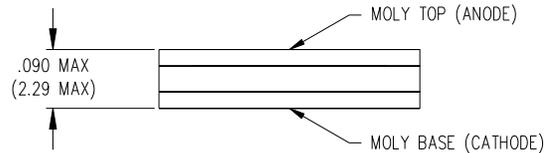
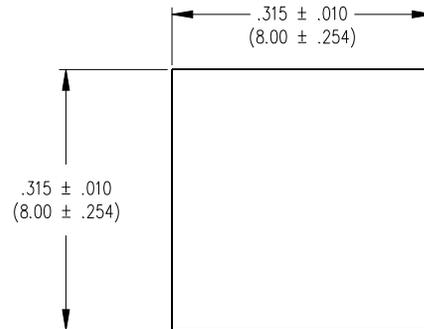
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c=100^\circ\text{C}$)	I_o	60	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine)	I_{FSM}	860	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r = 10\text{V}$)	C_T	2400	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.70	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	T_{op}	-65 to + 150	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	T_{stg}	-65 to + 150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

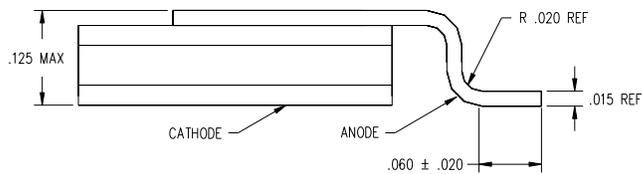
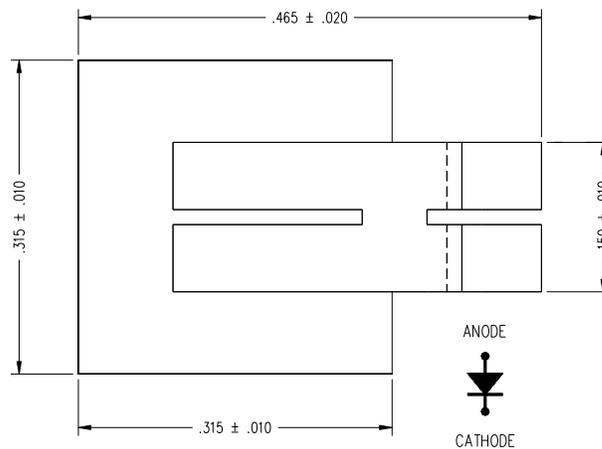
CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 60\text{ Amps}$) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.64 0.61	Volts
MAXIMUM REVERSE CURRENT (I_r @ 45V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	4.5 300	mA

MECHANICAL DIMENSIONS: In Inches / mm

SHD-2 HIGH PROFILE



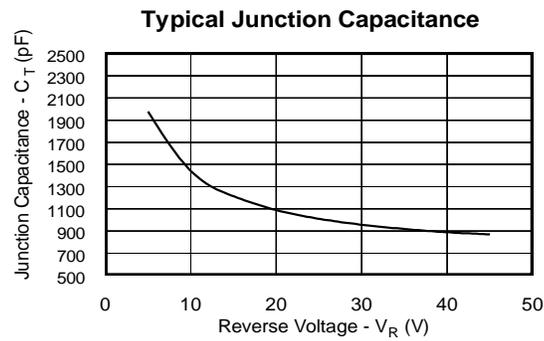
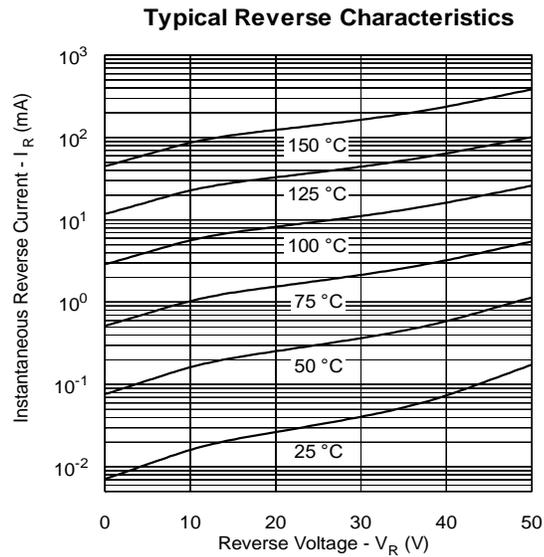
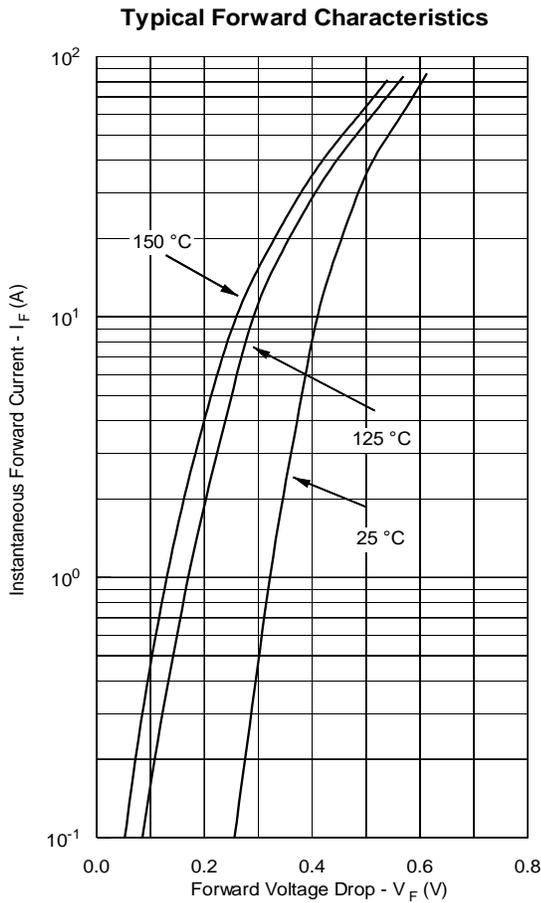
SHD-2B HIGH PROFILE



PINOUT TABLE

TYPE	PIN 1 (Base)	PIN 2
SINGLE RECTIFIER in a Surface Mount Package	CATHODE	ANODE

SENSITRON
DATA SHEET 5214, REV B



Note: The above VF characteristics are for die only.

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