TECHNICAL DATA
DATA SHEET 1047, REV. -

POWER SCHOTTKY RECTIFIER
Very Low Voltage Drop

(S-100 for JANTXV equivalent screening; SS for JANS equivalent screening available)

DESCRIPTION: A 30 VOLT, 15 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-3/3A/3B PACKAGE.

MAXIMUM RATINGS ALL RATINGS ARE @ T_C = 25 °C UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_C=100 ^{O}C)	I_O	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I_{FSM}	280	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r=5V)	C_T	1100	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.85	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 150	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 15 Amps)			
T_J = 25 °C	V_f	0.49	Volts
T_J = 125 °C		0.39	
MAXIMUM REVERSE CURRENT (I_r @ 30V PIV)			
T_J = 25 °C	I_r	2.0	mA
T_J = 125 °C		100	

SENSITRON

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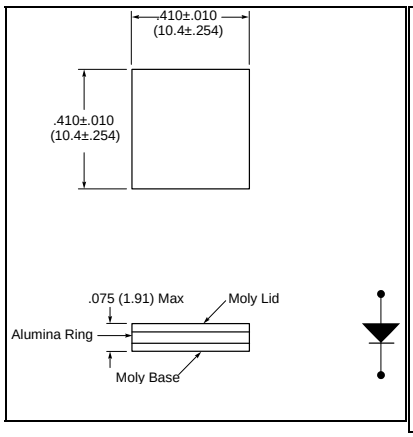
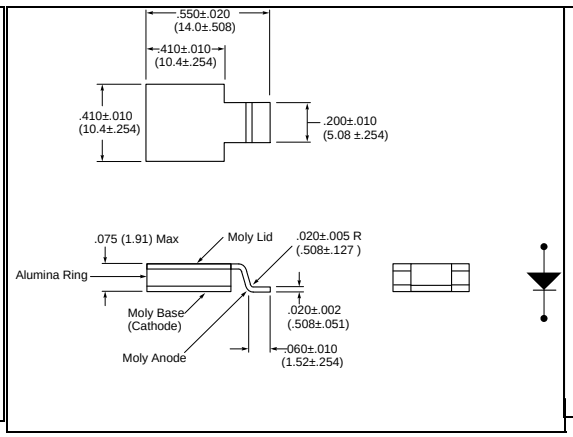
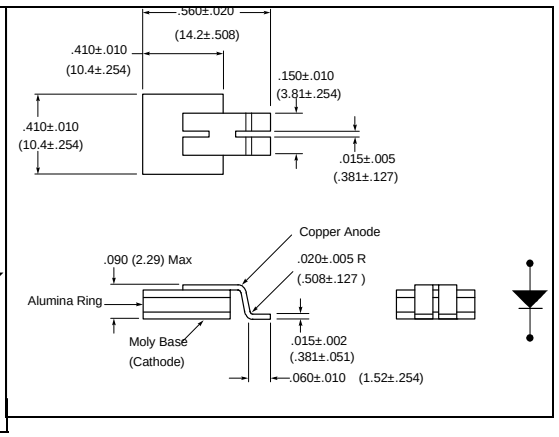
MECHANICAL DIMENSIONS: In Inches / mm



SHD-3



SHD-3A

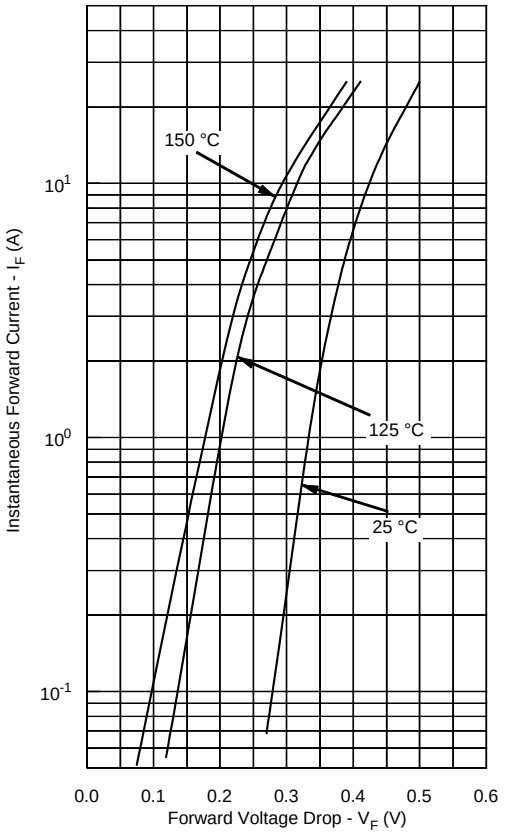


SHD-3B

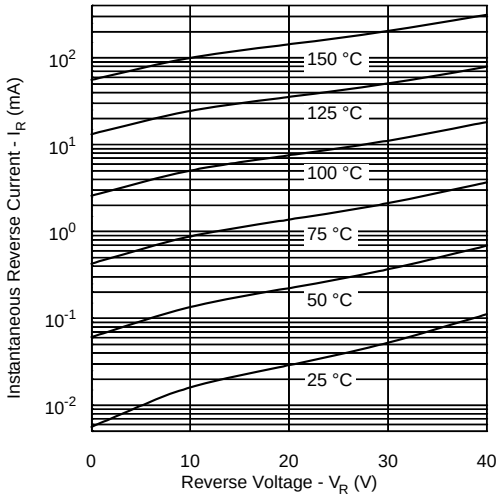
PINOUT TABLE

TYPE	PIN 1 (Base)	PIN 2
SINGLE RECTIFIER	CATHODE	ANODE

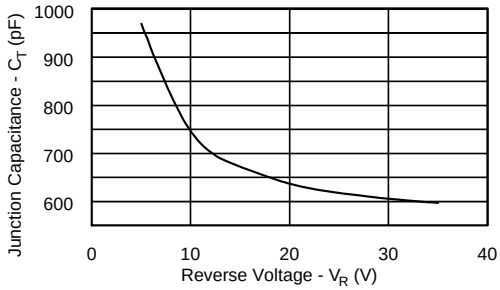
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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