

SENSITRON
SEMICONDUCTORTECHNICAL DATA
DATA SHEET 697, REV. -**HERMETIC POWER SCHOTTKY RECTIFIER**
200°C Maximum Operation Temperature

(AVAILABLE SCREENED TO JAN S LEVEL (SS-100); ADD SUFFIX "SS" TO PART NUMBER)

DESCRIPTION: A 200 VOLT, 120 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SHD-3/3A PACKAGE.**MAXIMUM RATINGS**ALL RATINGS ARE @ $T_c = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

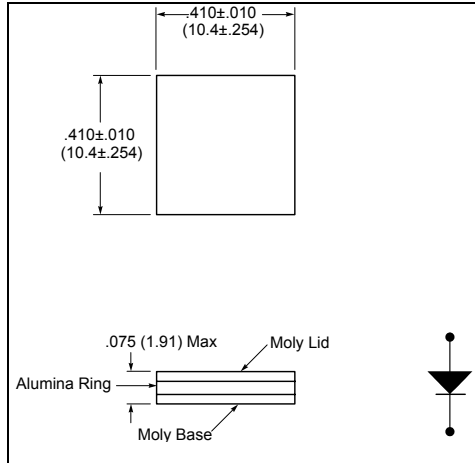
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	200	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ $T_c=100^\circ\text{C}$)	I_o	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=10ms, Sine)	I_{FSM}	1650	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	1800	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{\theta JC}$	0.20	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +200	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

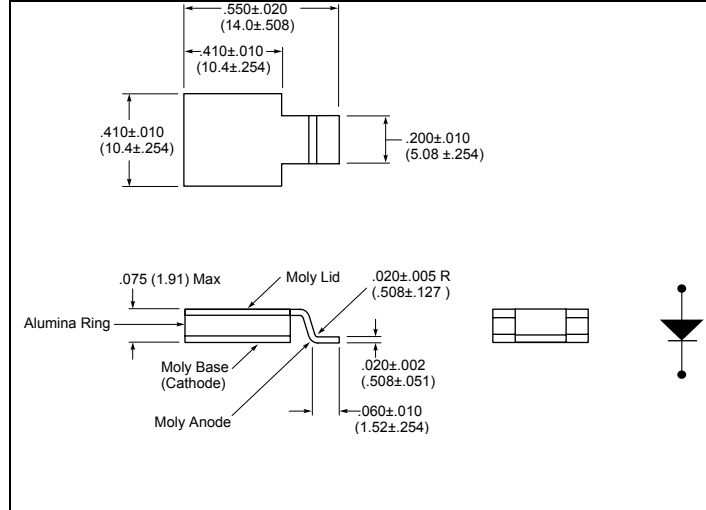
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 120$ Amps)	V_f	0.95	Volts
$T_J = 25^\circ\text{C}$			
$T_J = 125^\circ\text{C}$			
MAXIMUM REVERSE CURRENT ($I_r @ 200$ V PIV)	I_r	2.1	mA
$T_J = 25^\circ\text{C}$			
$T_J = 125^\circ\text{C}$			

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MECHANICAL DIMENSIONS: In Inches / mm

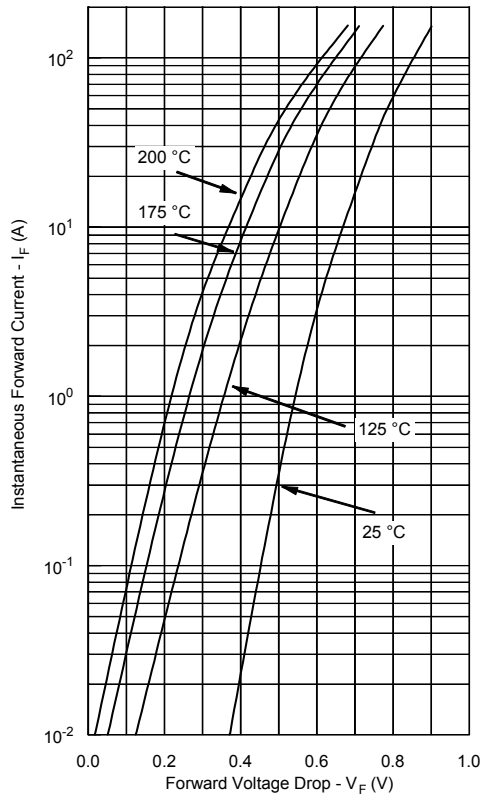


SHD-3

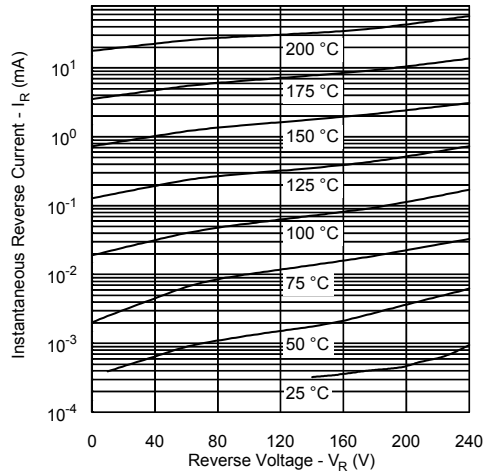


SHD-3A

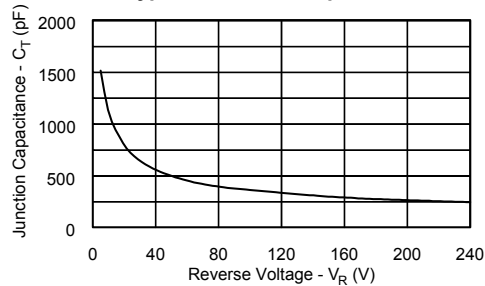
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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