

TECHNICAL DATA
DATA SHEET 250, REV. C

HERMETIC POWER SCHOTTKY RECTIFIER 200°C Maximum Operation Temperature

DESCRIPTION: A 100 VOLT, 120 AMP, HERMETIC POWER SCHOTTKY RECTIFIER IN A SHD-3/3A/3B 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 (With Cathode Maintained @ $T_C=100^\circ\text{C}$)	I_o	120	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=10ms, Sine)	I_{FSM}	1400	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	3000	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	0.20	$^\circ\text{C}/\text{W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to +200	$^\circ\text{C}$

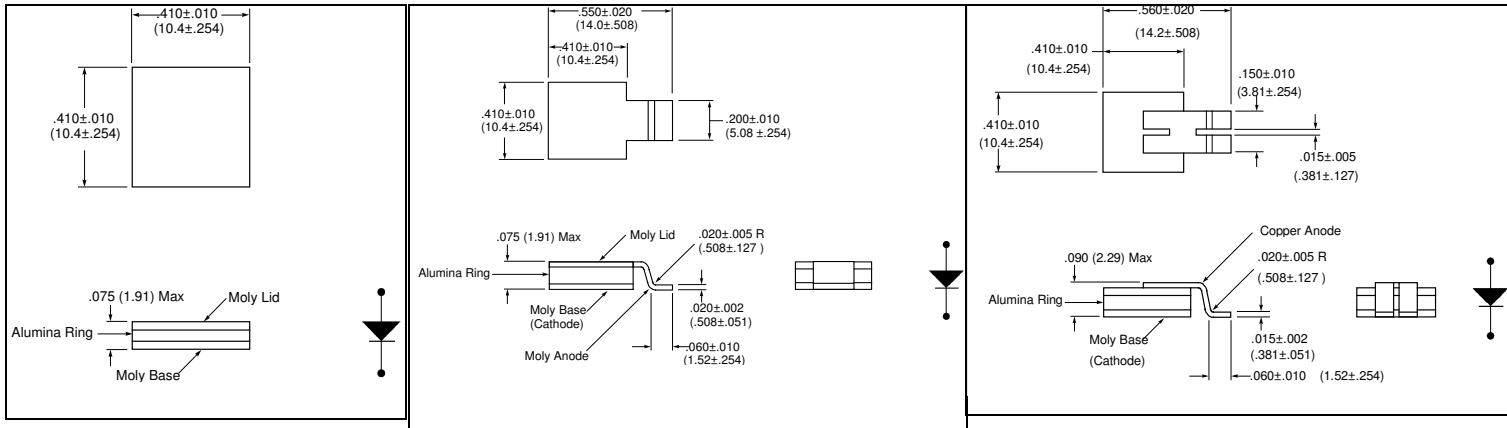
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 120$ Amps)	V_f	0.87	Volts
$T_J = 25^\circ\text{C}$			
$T_J = 125^\circ\text{C}$			
MAXIMUM REVERSE CURRENT ($I_r @ 100$ V PIV)	I_r	1.0	mA
$T_J = 25^\circ\text{C}$			
$T_J = 125^\circ\text{C}$			

SHD114644
SHD114644A
SHD114644B

SENSITRON
DATA SHEET 250, REV. C

MECHANICAL DIMENSIONS: In Inches / mm

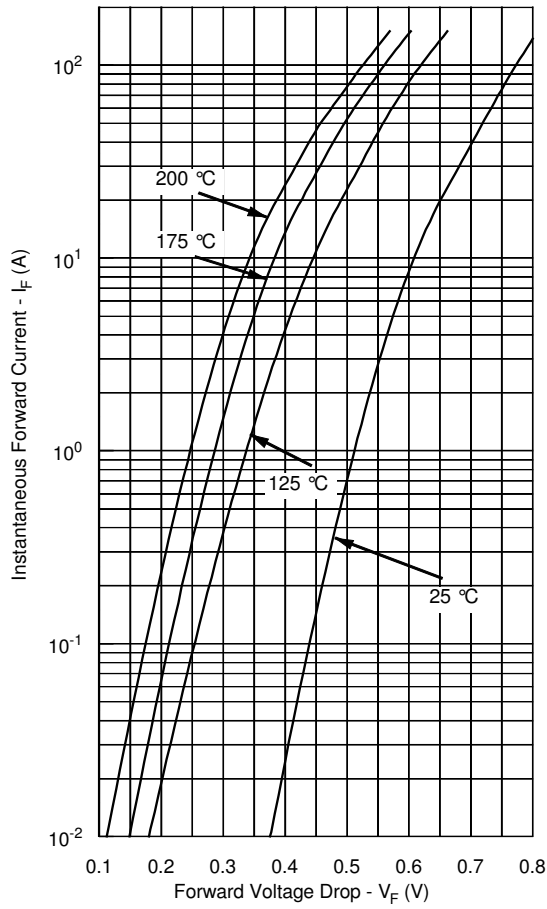


SHD-3

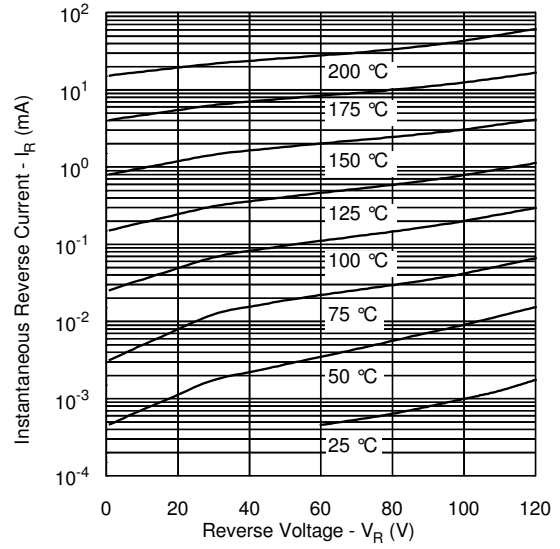
SHD-3A

SHD-3B

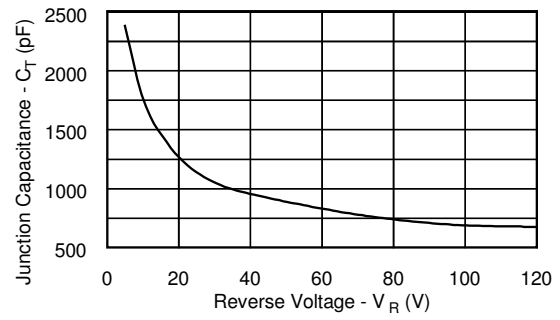
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



SENSITRON

SEMICONDUCTOR

TECHNICAL DATA

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