

TECHNICAL DATA
DATA SHEET 4608, REV.A

HERMETIC POWER SCHOTTKY RECTIFIER
(SINGLE / DUAL)

DESCRIPTION: A 45 VOLT, 7.5 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SMD-1 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 (@ $T_C=100^\circ\text{C}$) (Single)	I_o	7.5	Amps
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100^\circ\text{C}$) (Common Cathode)	I_o	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine)	I_{FSM}	140	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	400	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	1.21	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	T_{op}/T_{stg}	-65 to + 150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

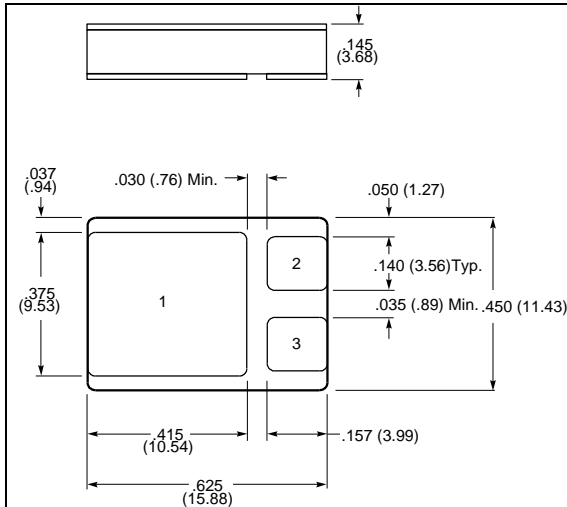
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 7.5\text{ Amps}$) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.64 0.59	Volts
MAXIMUM REVERSE CURRENT ($I_r @ 30\text{ V PIV}$) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	0.75 35	mA

SENSITRON SEMICONDUCTOR

SHD119112
SHD119112P

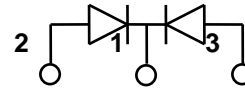
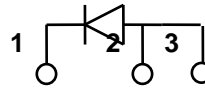
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MECHANICAL DIMENSIONS: IN Inches / mm



SINGLE

COMMON CATHODE

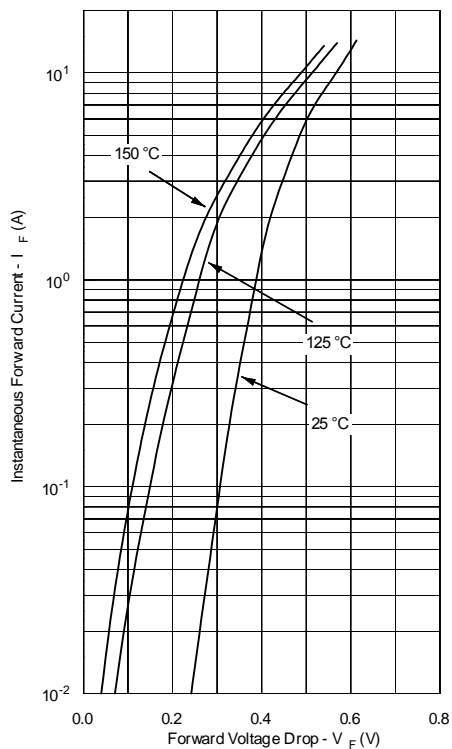


SMD-1

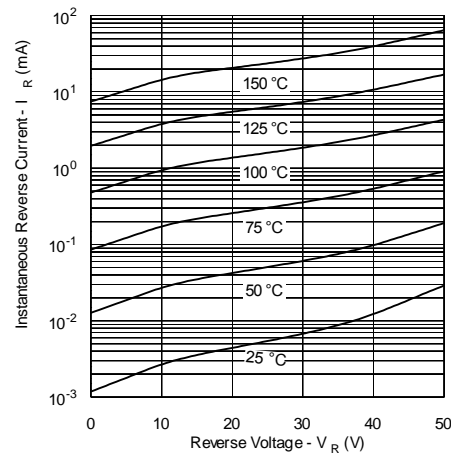
PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER - SHD119112	CATHODE	ANODE	ANODE
COMMON CATHODE - SHD119112P	COMMON CATHODE	ANODE 1	ANODE 2

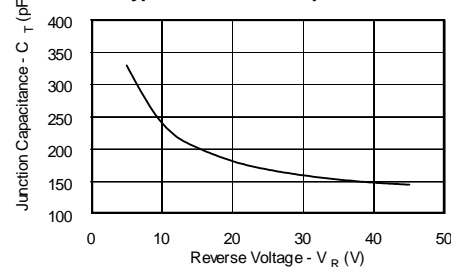
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



SENSITRON **SEMICONDUCTOR**

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