

TECHNICAL DATA DATA SHEET 4622, REV. A.1

# HERMETIC POWER SCHOTTKY RECTIFIER

(SINGLE / DUAL)

DESCRIPTION: A 45 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SMD-1 PACKAGE.

### **MAXIMUM RATINGS**

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

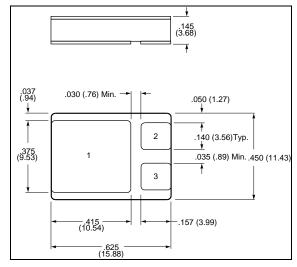
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	45	Volts
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C$ =100 $^{\circ}$ C) (Single)	I <sub>O</sub>	30	Amps
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100$ °C) (Common Cathode)	I <sub>O</sub>	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I <sub>FSM</sub>	200	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	C <sub>T</sub>	1600	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	1.38	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

### **ELECTRICAL CHARACTERISTICS**

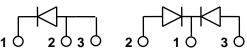
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> = 30 Amps)			
T <sub>J</sub> = 25 °C	$V_{f}$	0.65	Volts
T <sub>J</sub> = 125 °C		0.60	
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 45 V PIV)			
T <sub>J</sub> = 25 °C	I <sub>r</sub>	3	mA
T <sub>J</sub> = 125 °C		140	

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### **MECHANICAL DIMENSIONS: IN Inches / mm**



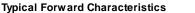


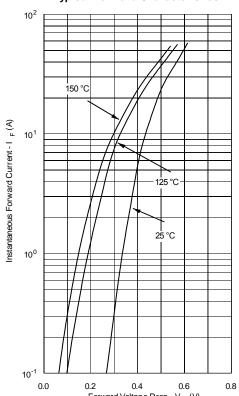


## SMD-1

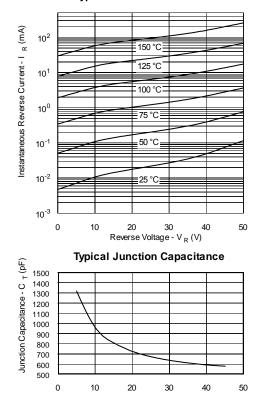
### **PINOUT TABLE**

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
COMMON CATHODE	COMMON CATHODE	ANODE 1	ANODE 2





#### Typical Reverse Characteristics





SHD119412 SHD119412P

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