

TECHNICAL DATA DATA SHEET 4641, REV.A.1

# HERMETIC POWER SCHOTTKY RECTIFIER

(SINGLE / DUAL)

DESCRIPTION: A 100 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SMD-1 PACKAGE.

#### **MAXIMUM RATINGS**

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

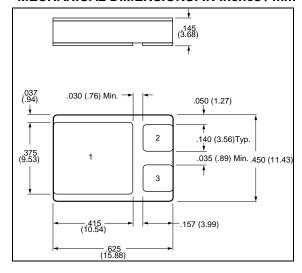
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RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_c$ =100 $^{\circ}$ C) (Single)	I <sub>O</sub>	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t = 8.3ms, Sine)	I <sub>FSM</sub>	200	Amps
MAXIMUM JUNCTION CAPACITANCE (V <sub>r</sub> =5V)	C <sub>T</sub>	3000	pF
MAXIMUM THERMAL RESISTANCE	$R_{ heta JC}$	0.57	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	°C

# **ELECTRICAL CHARACTERISTICS**

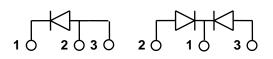
CHARACTERISTIC					
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I <sub>f</sub> :					
	T <sub>J</sub> = 25 °C	$V_{f}$	0.92	Volts	
	$T_J = 125^{\circ}C$		0.74		
MAXIMUM REVERSE CURRENT (I <sub>r</sub> @ 100 V PIV)					
	T <sub>J</sub> = 25 °C	l <sub>r</sub>	2	mA	
	T <sub>J</sub> = 125 °C		48		

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





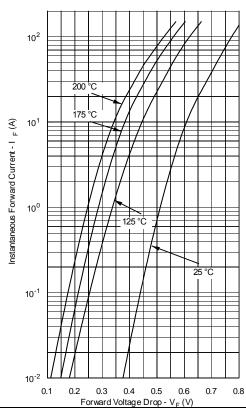


# SMD-1

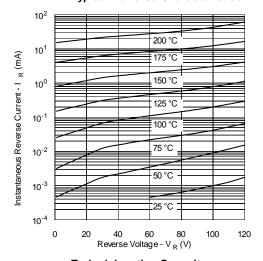
### **PINOUT TABLE**

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

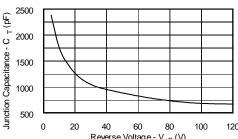
## **Typical Forward Characteristics**



#### Typical Reverse Characteristics



# **Typical Junction Capacitance**





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