TECHNICAL DATA DATA SHEET 4071, REV. A

# HERMETIC POWER SCHOTTKY RECTIFIER Very Low Voltage Drop

DESCRIPTION: 45 VOLT, 6 AMP POWER SCHOTTKY RECTIFIER IN LCC-5 PACKAGE

MAXIMUM RATINGS ARE @	ALL RATINGS ARE $@$ T <sub>c</sub> = 25 °C UNLESS OTHERWISE SPECIFIED.			
RATING / CONDITION		SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE (PER LEG)		PIV	45	Volts
MAXIMUM AVERAGE OUTPUT CURRENT (With Cathode Maintain $T_{c}$ =100 $^{\circ}$ C) RECTANGULAR WAVEFORM Common Cathode (parallel) Single	ed @	Io	6 3	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (PEF (t=8.3ms, Sine)	R LEG)	I <sub>FSM</sub>	60	Amps
MAXIMUM JUNCTION CAPACITANCE (PER LEG)	(V <sub>r</sub> =10V)	C <sub>T</sub>	160	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface Common Cathode (parallel) Single	, Cathode)	$R_{ ext{ heta}JC}$	1.9 3.8	°C/W
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	E	Top/Tstg	-65 to + 150	°C

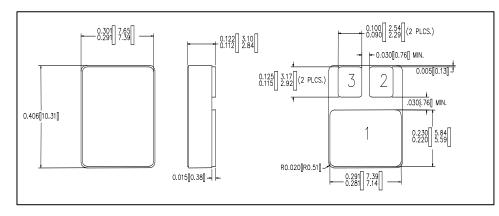
### **ELECTRICAL CHARACTERISTICS**

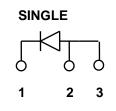
CHARACTERISTIC				
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 3.0 \text{ Amps}$ ) PER LEG				
T <sub>J</sub> = 25 °C	Vf	0.57	Volts	
T <sub>J</sub> = 125 °C	-1	0.52		
MAXIMUM REVERSE CURRENT (Ir @ 45V PIV)				
T <sub>J</sub> = 25 °C	l <sub>r</sub>	0.3	mA	
T <sub>J</sub> = 125 °C		14		

### SENSITRON

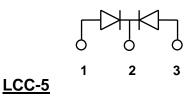
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## Mechanical Dimensions: in Inches / mm



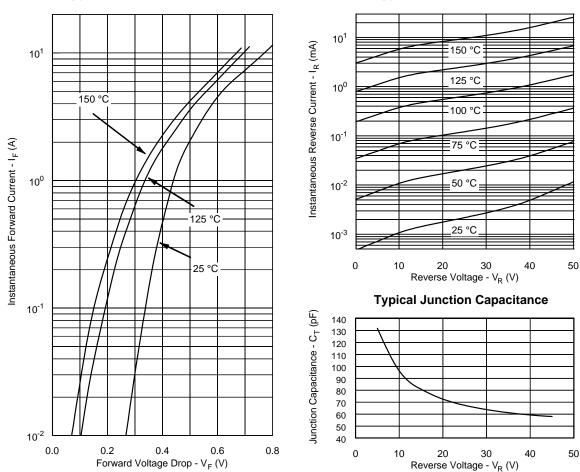


**COMMON CATHODE** 



#### **PINOUT TABLE**

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



#### Typical Forward Characteristics Typical Reverse Characteristics

#### SENSITRON

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