

TECHNICAL DATA  
DATA SHEET 5451, REV A

## HERMETIC POWER SCHOTTKY RECTIFIER Low Forward Voltage Drop

**DESCRIPTION:** A 60 VOLT, 30 AMP, COMMON CATHODE POWER SCHOTTKY RECTIFIER IN A SURFACE MOUNT HERMETIC SMD-0.5 PACKAGE.

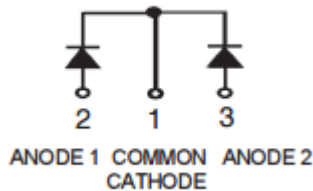
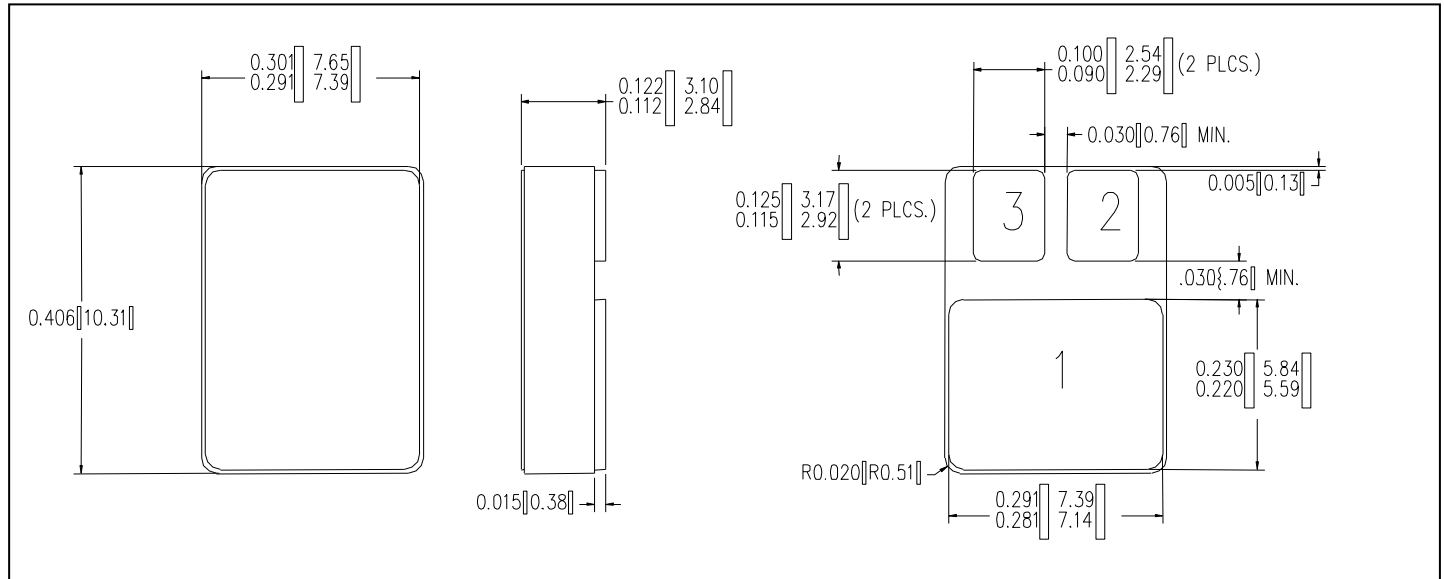
**MAXIMUM RATINGS**

ALL RATINGS ARE @  $T_c = 25\text{ }^\circ\text{C}$  UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	60	Volts
MAXIMUM DC OUTPUT CURRENT (With 50% duty cycle and Cathode Maintained @ $T_c=80\text{ }^\circ\text{C}$ )	$I_o$	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (PER LEG) ( $t=8.3\text{ms}$ , Sine)	$I_{FSM}$	120	Amps
MAXIMUM JUNCTION CAPACITANCE ( $V_r=5\text{V}$ ) (PER LEG)	$C_T$	500	pF
MAXIMUM THERMAL RESISTANCE PER LEG (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	3.5	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	$T_{op}/T_{stg}$	-55 to +150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 15\text{ Amps}$ ) (PER LEG) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$ $T_J = -55\text{ }^\circ\text{C}$	$V_f$	0.86 0.76 1.00	Volts
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 30\text{ Amps}$ ) (PER LEG) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$ $T_J = -55\text{ }^\circ\text{C}$	$V_f$	1.04 0.96 1.20	Volts
MAXIMUM REVERSE CURRENT ( $I_r$ @ 60V PIV) (PER LEG) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$ $T_J = -55\text{ }^\circ\text{C}$	$I_r$	0.05 50 0.05	mA

**SENSITRON**
**TECHNICAL DATA**  
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**Mechanical Dimensions: in Inches / mm****SMD-0.5****PINOUT TABLE**

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

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