

TECHNICAL DATA  
DATA SHEET 4070, REV. A.1

## HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

**DESCRIPTION:** A 30 VOLT, 30 AMP, 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	30	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)	$I_{FSM}$	140	Amps
MAXIMUM JUNCTION CAPACITANCE ( $V_r=5\text{V}$ ) (PER LEG)	$C_T$	550	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	5.06	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-55 to +150	$^\circ\text{C}$

**ELECTRICAL CHARACTERISTICS**

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 7.5\text{ Amps}$ ) (PER LEG) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	$V_f$	0.50 0.42	Volts
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 15\text{ Amps}$ ) (PER LEG) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	$V_f$	0.62 0.56	Volts
MAXIMUM REVERSE CURRENT ( $I_r$ @ 30V PIV) (PER LEG) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	$I_r$	1.0 50	mA

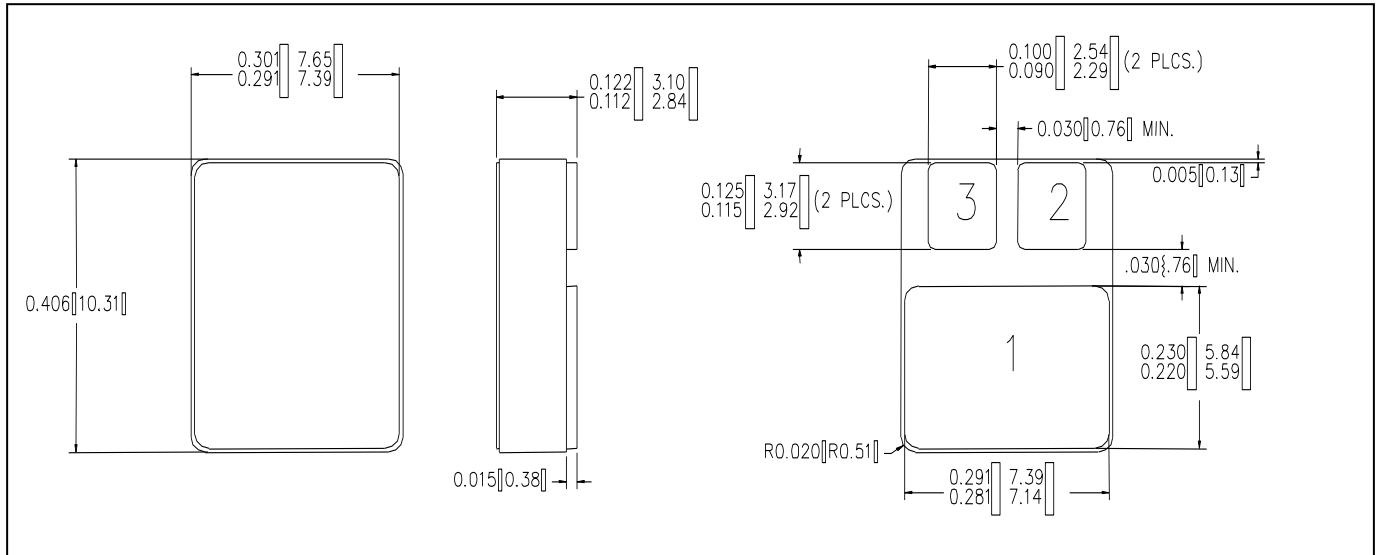
**SENSITRON**

**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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