

TECHNICAL DATA
 DATA SHEET 4070, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER

Very Low Forward Voltage Drop

DESCRIPTION: A 30 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A SURFACE MOUNT HERMETIC LCC-5 PACKAGE.

Add a "C" after the SHD for ceramic seals (SHDC120111P)

MAXIMUM RATINGS

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

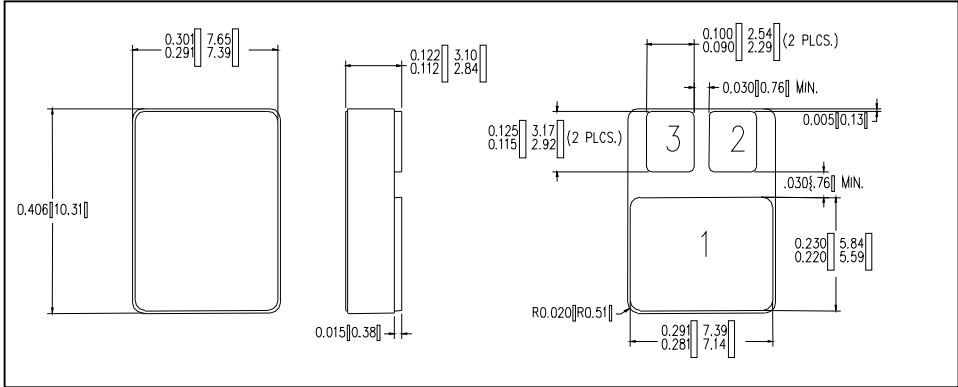
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT (With 50% duty cycle and Cathode Maintained @ $T_C=80\text{ }^\circ\text{C}$)	I_O	30	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (PER LEG) ($t=8.3\text{ms}$, Sine)	I_{FSM}	140	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$) (PER LEG)	C_T	550	pF
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R\theta_{JC}$	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 ($I_f = 7.5\text{ Amps}$) (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

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Mechanical Dimensions: in Inches / mm **LCC-5**



PINOUT TABLE

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

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