TECHNICAL DATA
DATA SHEET 1068, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER

200°C Maximum Operation Temperature

Add Suffix "S" to Part Number for S-100 Screening.

DESCRIPTION: A 100 VOLT, 3 AMP, POWER SCHOTTKY RECTIFIER IN A CERAMIC HERMETIC LCC-5 PACKAGE.

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

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T_C=100 ^{O}C) (SINGLE) (COMMON CATHODE)	I_O	 3.0 6.0	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine) (PER LEG)	I_{FSM}	55	Amps
MAXIMUM JUNCTION CAPACITANCE (V_r=5V)	C_T	100	pF
MAXIMUM THERMAL RESISTANCE (PER LEG)	$R_{\theta JC}$	11.3	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Top	-65 to + 200	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	°C

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I_f = 3.0 Amps) (PER LEG) T_J = 25 °C T_J = 125 °C	V_f	 0.89 0.73	Volts
MAXIMUM REVERSE CURRENT (I_r @ 100V PIV) (PER LEG) T_J = 25 °C T_J = 125 °C	I_r	 0.07 1.6	mA

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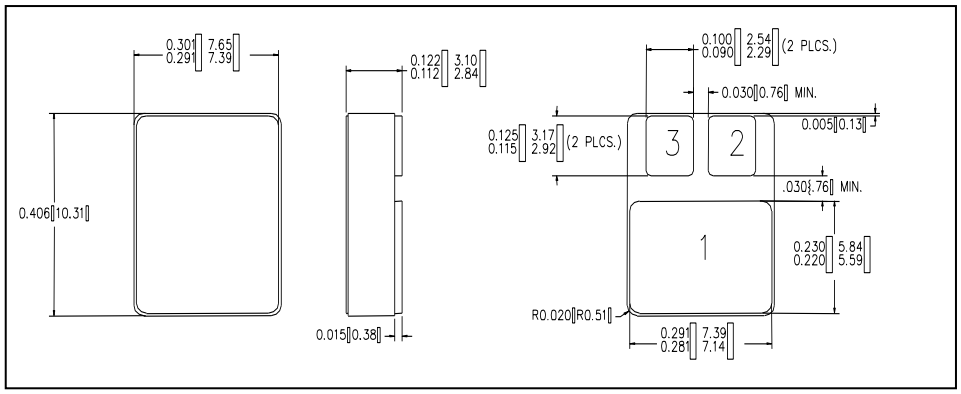
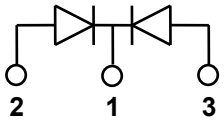
MECHANICAL DIMENSIONS: IN Inches / mm



COMMON CATHODE



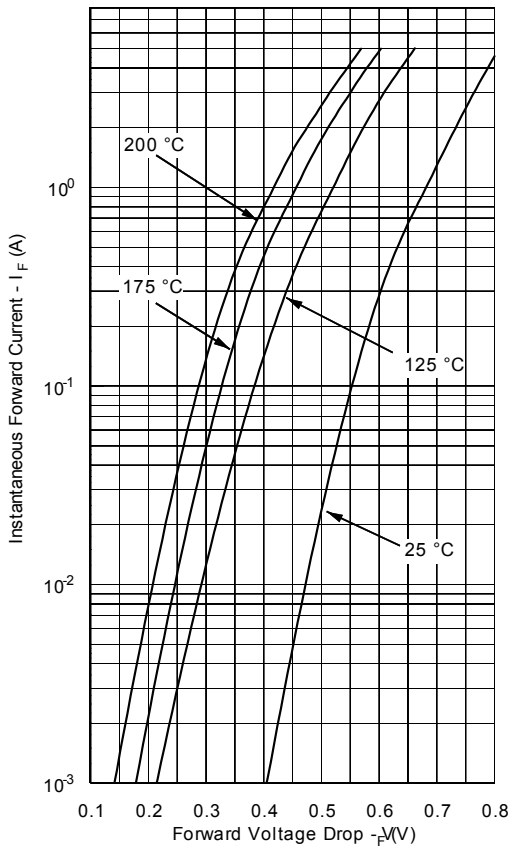
LCC-5

PINOUT TABLE

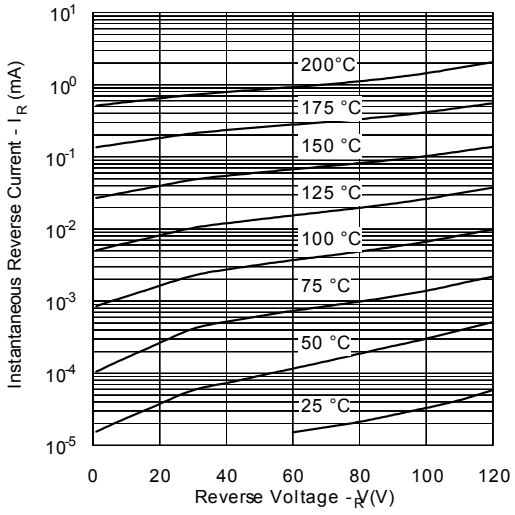
DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, SINGLE	CATHODE	ANODE 1	ANODE 1
DUAL RECTIFIER, COMMON CATHODE (P)	CATHODE	ANODE	ANODE

V_f curves are for bare die only.

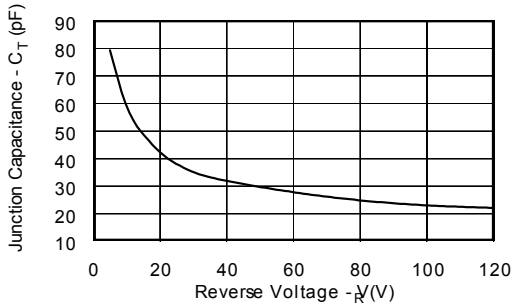
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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