

TECHNICAL DATA
DATA SHEET 1180, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER
Ultra Low Reverse Leakage

DESCRIPTION: A 100 VOLT, 45 AMP, DUAL POWER SCHOTTKY RECTIFIERS IN A HERMETIC PACKAGE.

MAXIMUM RATINGS

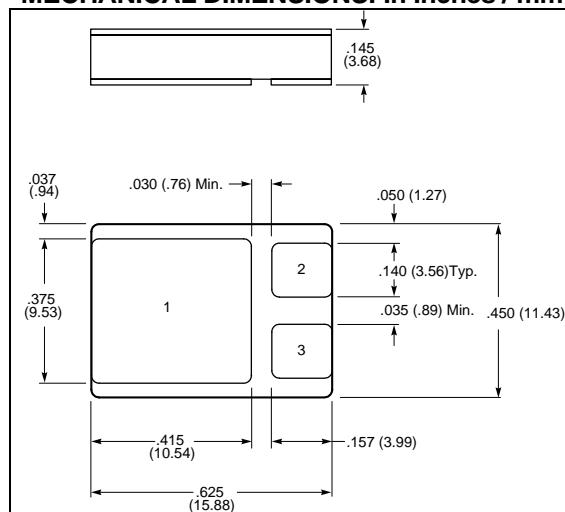
ALL RATINGS ARE @ $T_J = 25\text{ }^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (@ $T_C=100\text{ }^\circ\text{C}$)	I_O	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t=8.3\text{ms}$, Sine)	I_{FSM}	200	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	1500	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	0.47	$^\circ\text{C/W}$
MAXIMUM OPERATING TEMPERATURE RANGE	Top	-65 to +200	$^\circ\text{C}$
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to +175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (per leg, $I_f = 45\text{ Amps}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	V_f	0.99 0.81	Volts
MAXIMUM REVERSE CURRENT (per leg, $I_r @ 100\text{ V PIV}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	I_r	0.3 3.0	mA

MECHANICAL DIMENSIONS: In Inches / mm



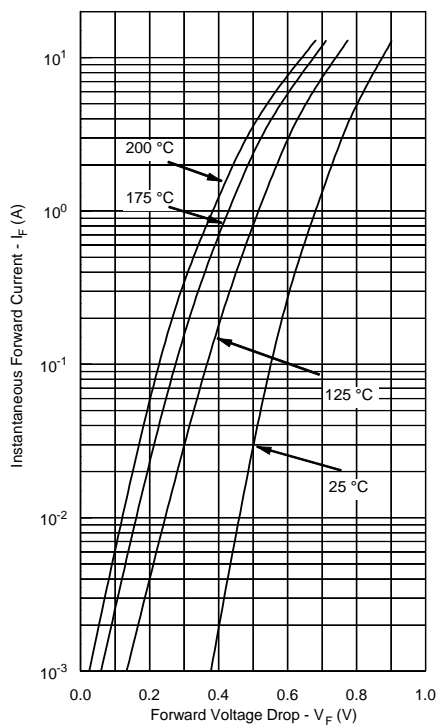
LCC-3P

PINOUT TABLE

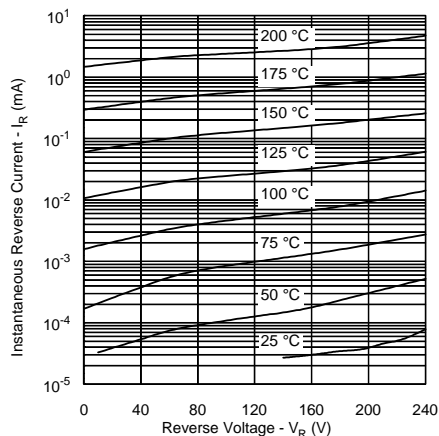
DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

Note: The V_f curves shown are for unpackaged die only.

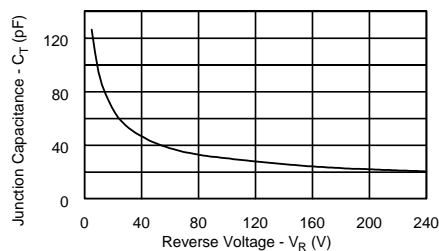
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



SENSITRON**DATA SHEET 1180, REV. A**

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