

TECHNICAL DATA
DATA SHEET 5099, REV. B.1**HERMETIC POWER SCHOTTKY RECTIFIER**
(SINGLE / DUAL)**DESCRIPTION:** A 150 VOLT, 30 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SMD-1 PACKAGE.**MAXIMUM RATINGS**ALL RATINGS ARE @ $T_C = 25\text{ }^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

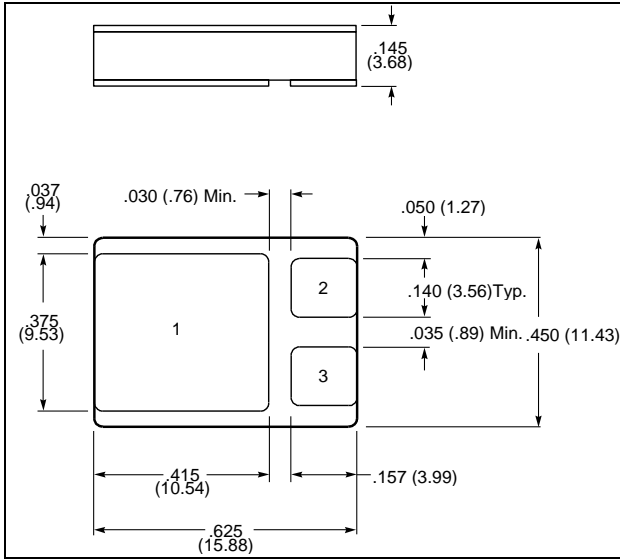
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	150	Volts
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100\text{ }^\circ\text{C}$) (Single)	I_o	30	Amps
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100\text{ }^\circ\text{C}$) (Common Cathode)	I_o	35	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine)	I_{FSM}	150	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	1000	pF
MAXIMUM THERMAL RESISTANCE Common Cathode	$R_{\theta JC}$	1.38	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

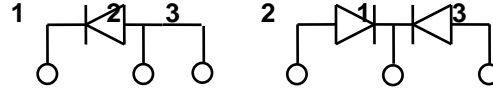
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 35\text{ Amps}$) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	V_f	1.05 0.89	Volts
MAXIMUM REVERSE CURRENT (I_r @ 150 V PIV) $T_J = 25\text{ }^\circ\text{C}$ $T_J = 125\text{ }^\circ\text{C}$	I_r	1.5 24	mA

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MECHANICAL DIMENSIONS: IN Inches / mm



SINGLE COMMON CATHODE

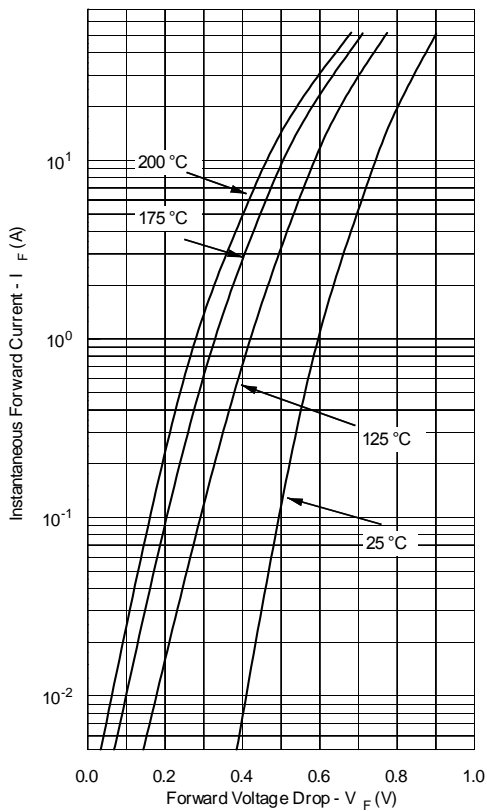


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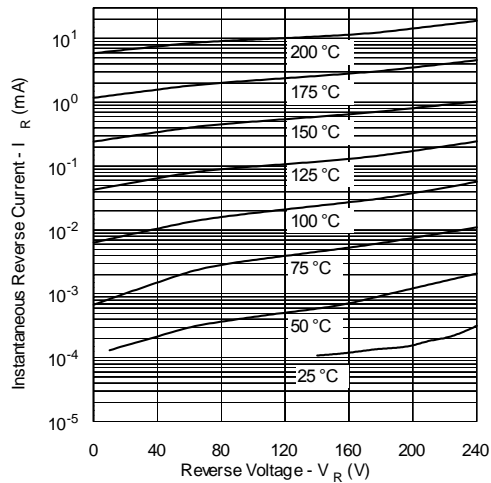
PINOUT TABLE

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

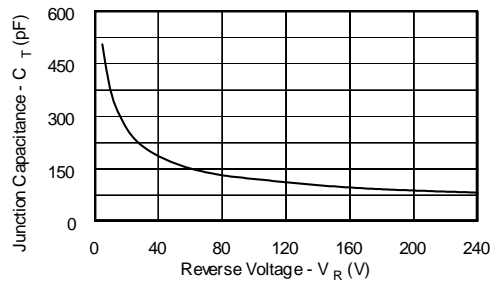
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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