

TECHNICAL DATA
DATA SHEET 4636, REV.A.1**HERMETIC POWER SCHOTTKY RECTIFIER**
(SINGLE / DUAL)**DESCRIPTION:** A 30 VOLT, 45 AMP, POWER SCHOTTKY RECTIFIER IN A HERMETIC SMD-1 PACKAGE.**MAXIMUM RATINGS**ALL RATINGS ARE @ $T_C = 25^\circ\text{C}$ UNLESS OTHERWISE SPECIFIED.

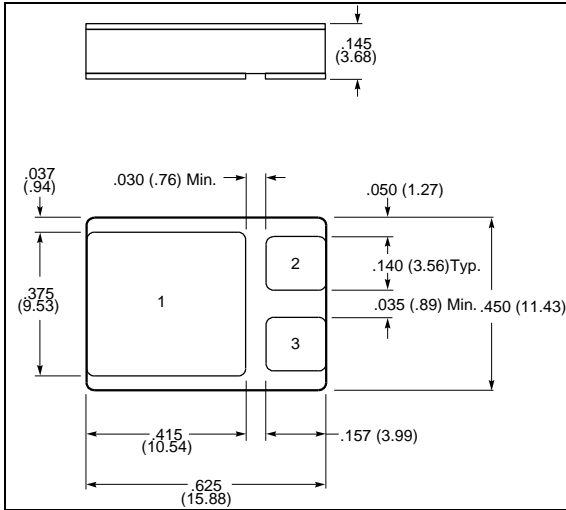
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	30	Volts
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=100^\circ\text{C}$) (Single)	I_O	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ($t = 8.3\text{ms}$, Sine)	I_{FSM}	200	Amps
MAXIMUM JUNCTION CAPACITANCE ($V_r=5\text{V}$)	C_T	6600	pF
MAXIMUM THERMAL RESISTANCE	$R_{\theta JC}$	0.57	$^\circ\text{C/W}$
MAXIMUM OPERATING AND STORAGE TEMPERATURE RANGE	Top/Tstg	-65 to + 175	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS

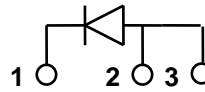
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ($I_f = 45$ Amps) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	V_f	0.60 0.46	Volts
MAXIMUM REVERSE CURRENT ($I_r @ 30$ V PIV) $T_J = 25^\circ\text{C}$ $T_J = 125^\circ\text{C}$	I_r	12 600	mA

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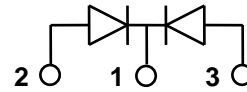
MECHANICAL DIMENSIONS: IN Inches / mm



SINGLE



COMMON CATHODE

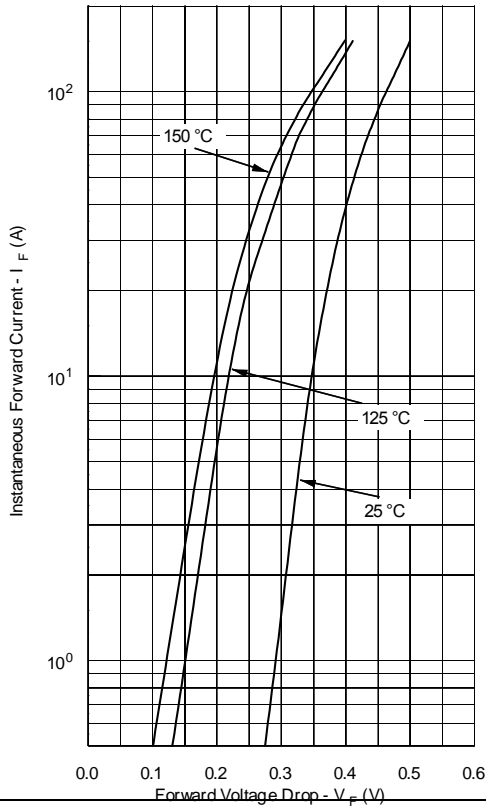


SMD-1

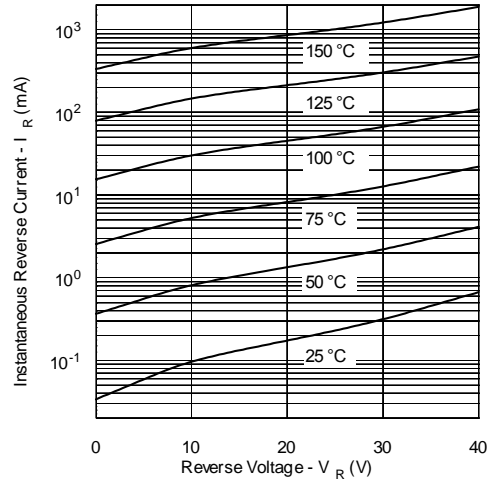
PINOUT TABLE

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

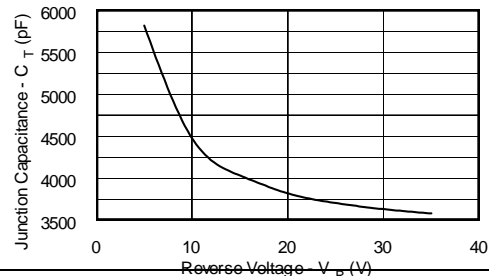
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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