

TECHNICAL DATA  
DATA SHEET 4643, REV.A.2**HERMETIC POWER SCHOTTKY RECTIFIER****DESCRIPTION:** A 15 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.

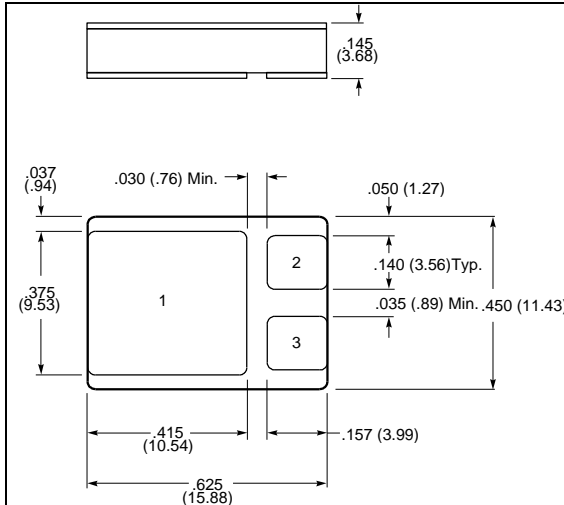
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	15	Volts
MAXIMUM DC OUTPUT CURRENT With Cathode Maintained (@ $T_C=70^\circ\text{C}$ ) (Single)	$I_O$	45	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT ( $t = 8.3\text{ms}$ , Sine)	$I_{FSM}$	200	Amps
MAXIMUM JUNCTION CAPACITANCE ( $V_r=5\text{V}$ )	$C_T$	7200	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**

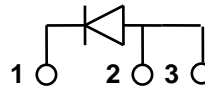
CHARACTERISTIC			
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ( $I_f = 45\text{Amps}$ ) $T_J = 25^\circ\text{C}$ $T_J = 75^\circ\text{C}$	$V_f$	0.45 0.41	Volts
MAXIMUM REVERSE CURRENT ( $I_r @ 15\text{V PIV}$ ) $T_J = 25^\circ\text{C}$ $T_J = 100^\circ\text{C}$	$I_r$	40 2000	mA

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**MECHANICAL DIMENSIONS: IN Inches / mm**



**SINGLE**



**SMD-1**

**PINOUT TABLE**

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

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