

TECHNICAL DATA DATA SHEET 4218, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

Applications:

• Switching Power Supply • Converters • Free-Wheeling Diodes • Polarity Protection Diode

Features:

- Very Low Forward Voltage Drop
- High Efficiency
- High Frequency Application
- Guard Ring for Enhanced Durability and Long Term Reliability

MAXIMUM RATINGS

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

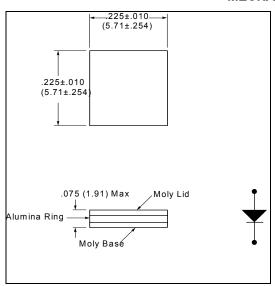
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	20	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =70 °C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	280	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	1.7	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Тор	-65 to + 150	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 150	°C

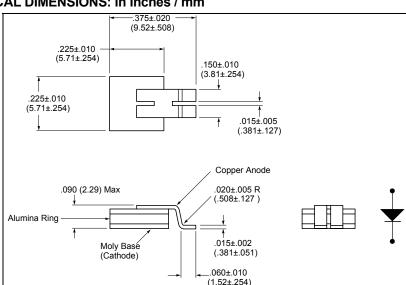
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC	SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed (I _f = 15 Amps)			
$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$	V _f	0.45 0.32	Volts
MAXIMUM REVERSE CURRENT (I _r @ 15V PIV)			
$T_J = 25 ^{\circ}\text{C}$ $T_J = 125 ^{\circ}\text{C}$	l _r	2 220	mA
MAXIMUM JUNCTION CAPACITANCE (V _r =5V) C _T	1350	pF

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MECHANICAL DIMENSIONS: In Inches / mm



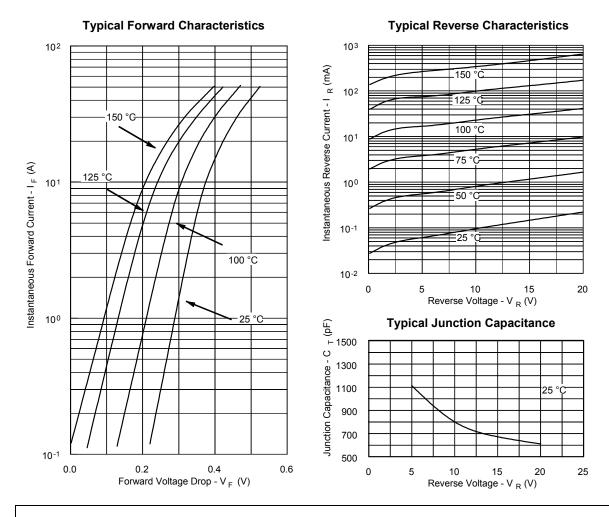


SHD-1B

SENSITRON

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Note: Vf characteristics are for bare die only.



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