

TECHNICAL DATA DATA SHEET 4545, 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.

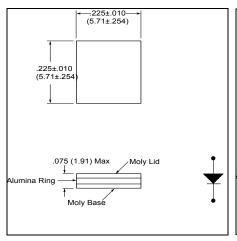
RATING	SYMBOL	MAX.	UNITS
PEAK INVERSE VOLTAGE	PIV	100	Volts
MAXIMUM DC OUTPUT CURRENT (With Cathode Maintained @ T _C =100 ^O C)	Io	15	Amps
MAXIMUM NONREPETITIVE FORWARD SURGE CURRENT (t=8.3ms, Sine)	I _{FSM}	250	Amps
MAXIMUM THERMAL RESISTANCE (Junction to Mounting Surface, Cathode)	$R_{ heta JC}$	2.65	°C/W
MAXIMUM OPERATING TEMPERATURE RANGE	Тор	-65 to + 175	°C
MAXIMUM STORAGE TEMPERATURE RANGE	Tstg	-65 to + 175	°C

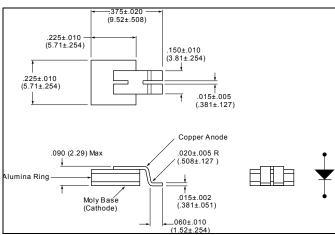
ELECTRICAL CHARACTERISTICS

CHARACTERISTIC		SYMBOL	MAX.	UNITS
MAXIMUM FORWARD VOLTAGE DROP, Pulsed ((I _f = 15 Amps)			
	Γ _J = 25 °C Γ _J = 125 °C	V_{f}	0.90 0.72	Volts
MAXIMUM REVERSE CURRENT (I _r @ 100V PIV)				
	Г _Ј = 25 °C Г _Ј = 125 °C	l _r	0.5 15	mA
MAXIMUM JUNCTION CAPACITANCE	(V _r =5V)	Ст	600	рF

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MECHANICAL DIMENSIONS: In Inches / mm





SHD-1B

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