

TECHNICAL DATA
DATA SHEET 4536, REV. A**HERMETIC SCHOTTKY RECTIFIER**
Very Low Forward Voltage Drop**Features:**

- Soft Reverse Recovery at Low and High Temperature
- Very Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability
- Guaranteed Reverse Avalanche Characteristics

Maximum Ratings

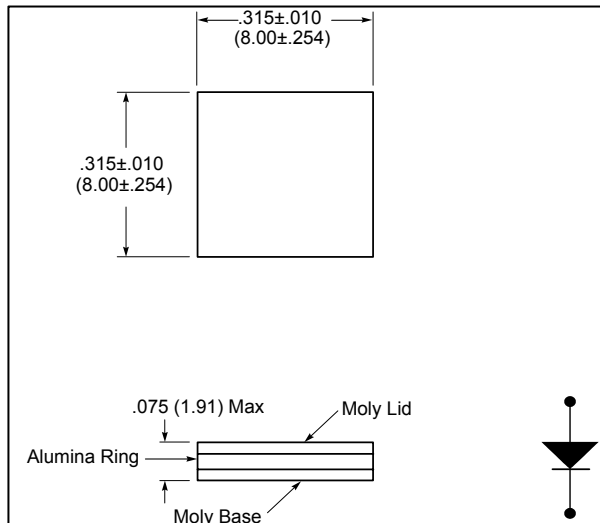
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	15	V
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle, rectangular wave form (Single)	15	A
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle, rectangular wave form (Common Cathode)	30	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine wave (per leg)	280	A
Non-Repetitive Avalanche Energy	E_{AS}	$T_J = 25\text{ }^{\circ}\text{C}$, $I_{AS} = 3.0\text{ A}$, $L = 4.4\text{ mH}$ (per leg)	20	mJ
Repetitive Avalanche Current	I_{AR}	I_{AS} decay linearly to 0 in $1\text{ }\mu\text{s}$ f limited by T_J max $V_A = 1.5V_R$	3.0	A
Maximum Thermal Resistance	$R_{\theta JC}$	DC operation	0.85	$^{\circ}\text{C/W}$
Max. Junction Temperature	T_J	-	-65 to +100	$^{\circ}\text{C}$
Max. Storage Temperature	T_{stg}	-	-65 to +100	$^{\circ}\text{C}$

Electrical Characteristics

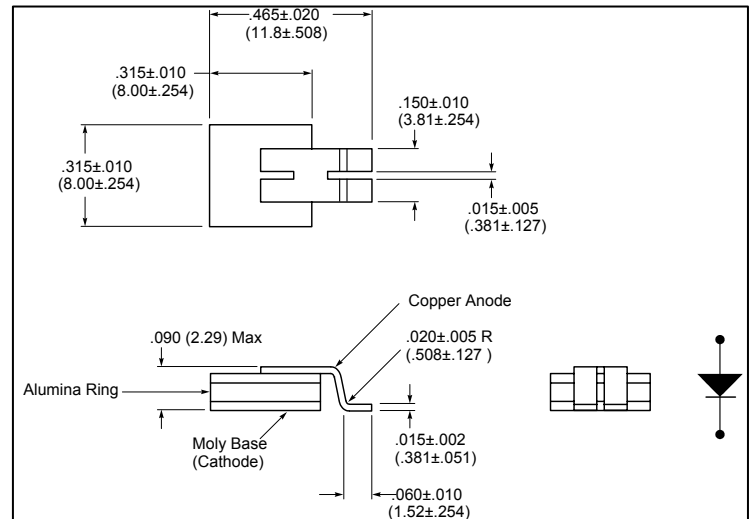
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop (per leg)	V_{F1}	@ 15A, Pulse, $T_J = 25\text{ }^{\circ}\text{C}$	0.37	V
	V_{F2}	@ 15A, Pulse, $T_J = 125\text{ }^{\circ}\text{C}$	0.33	V
Max. Reverse Current (per leg)	I_{R1}	@ $V_R = 15\text{ V}$, Pulse, $T_J = 25\text{ }^{\circ}\text{C}$	7	mA
	I_{R2}	@ $V_R = 15\text{ V}$, Pulse, $T_J = 125\text{ }^{\circ}\text{C}$	340	mA
Max. Junction Capacitance (per leg)	C_T	@ $V_R = 5\text{ V}$, $T_C = 25\text{ }^{\circ}\text{C}$ $f_{SIG} = 1\text{ MHz}$, $V_{SIG} = 50\text{ mV}$ (p-p)	1200	pF

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MECHANICAL DIMENSIONS: In Inches / mm



SHD-2



SHD-2B

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