TECHNICAL DATA
DATA SHEET 911, REV. A

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop

Applications:

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

Features:

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

Maximum Ratings:

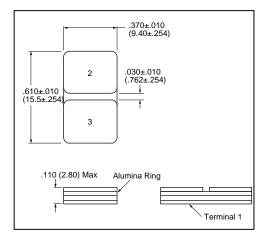
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	200	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form (per leg)	7.5	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave (per leg)	140	Α
Non-Repetitive Avalanche Energy	E _{AS}	$T_J = 25 ^{\circ}\text{C}, \ V_{RSM} = 0.4 \text{A}, \ L = 40 \text{mH}$	7.7	mJ
Repetitive Avalanche Current	I _{AR}	I_{AS} decay linearly to 0 in 1 μ s f limited by T_J max V_A =1.5 V_R	0.4	А
Maximum Thermal Resistance	$R_{\theta JC}$	-	3.2	°C/W
Max. Junction Temperature	T _J	-	-65 to +200	°C
Max. Storage Temperature	T _{stg}	-	-65 to +200	°C

Electrical Characteristics:

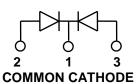
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 7.5A, Pulse, T _J = 25 °C	0.92	V
(per leg)	V_{F2}	@ 7.5A, Pulse, T _J = 125 °C	0.76	V
Max. Reverse Current	I _{R1}	@V _R = 200V, Pulse,	0.18	mA
		T _J = 25 °C		
(per leg)	I_{R2}	$@V_R = 200V$, Pulse,	4.0	mA
		T _J = 125 °C		
Max. Junction Capacitance	C _T	$@V_R = 5V, T_C = 25 ^{\circ}C$	150	pF
(per leg)		$f_{SIG} = 1MHz,$		
		$V_{SIG} = 50 \text{mV (p-p)}$		
Max. Reverse Recovery Time	t _{rr}	$I_F = 0.5 \text{ A}, I_R = 1.0 \text{ A},$	25	nsec
		$I_{RM} = 0.25 \text{ A}, T_{J} = 25 ^{\circ}\text{C}$		·

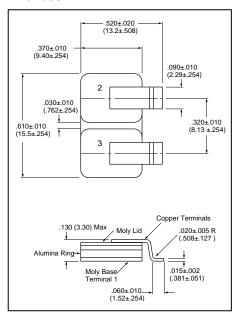
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MECHANICAL DIMENSIONS: In Inches / mm



SHD-5

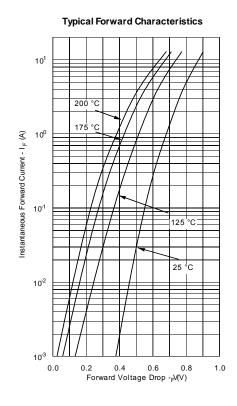


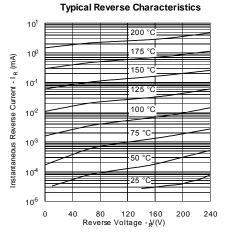


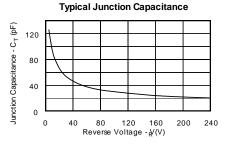
SHD-5B

PINOUT TABLE

DEVICE TYPE	PIN 1	PIN 2	PIN 3
DUAL RECTIFIER, COMMON CATHODE (P)	COMMON CATHODE	ANODE	ANODE







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