TECHNICAL DATA DATA SHEET 913, REV. -

HERMETIC POWER SCHOTTKY RECTIFIER Very Low Forward Voltage Drop Ultra Low Reverse Leakage

Applications:

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

Features:

- Ultra Low Reverse Leakage Current
- 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:

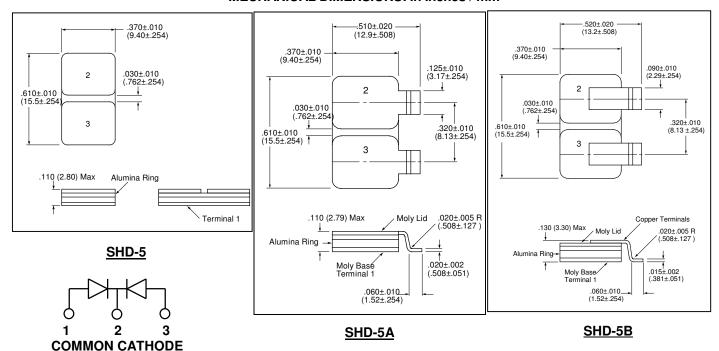
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	200	V
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle, rectangular wave form (per leg)	7.5	Α
Max. Peak One Cycle Non-	I _{FSM}	8.3 ms, half Sine wave	140	Α
Repetitive Surge Current		(per leg)		
Non-Repetitive Avalanche	E _{AS}	$T_J = 25 ^{\circ}\text{C}, I_{AS} = 0.4 \text{A},$	7.7	mJ
Energy		L = 40mH		
Repetitive Avalanche Current	I _{AR}	I _{AS} decay linearly to 0 in 1 μs	0.4	Α
		f limited by T_J max $V_A=1.5V_R$		
Maximum Thermal Resistance	$R_{\theta JC}$	-	0.85	°C/W
Max. Junction Temperature	TJ	-	-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,	0.008	mA
		T _J = 25 °C		
(per leg)	I _{R2}	$@V_R = 200V$, Pulse,	0.5	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 A, T _J = 25 °C		

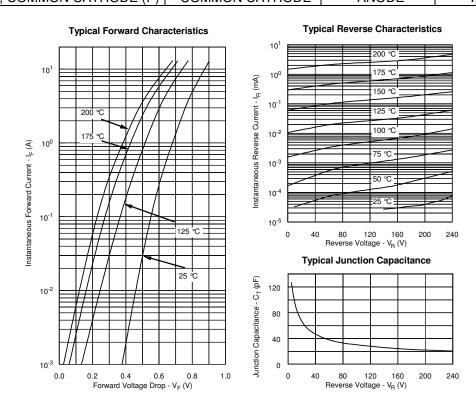
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MECHANICAL DIMENSIONS: In Inches / mm



PINOUT TABLE

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





TECHNICAL DATA

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