

TECHNICAL DAT DATA SHEET 1008, REV. B

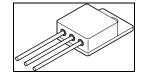
HERMETIC POWER SCHOTTKY RECTIFIER Low Forward Voltage Drop (60 V, 35A)

Applications:

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

Features:

- Soft Reverse Recovery at Low and High Temperature
- 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:

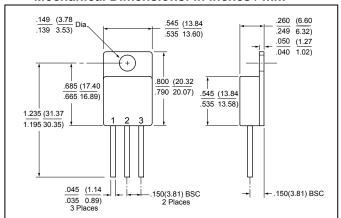
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	60	V
Max. Average Forward	I _{F(AV)}	50% duty cycle @T _C =100°C,	35	Α
Current		rectangular wave form		
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine pulse	150	А
Max. Junction Temperature	T_J	-	-65 to +150	°C
Max. Storage Temperature	T _{stg}	-	-65 to +175	°C

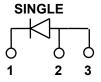
Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 35 A, Pulse, T _J = 25 °C	0.75	V
	V_{F2}	@ 35 A, Pulse, T _J = 125 °C	0.64	V
Max. Reverse Current	I _{R1}	@V _R = 60V, Pulse,	9.0	mA
		T _J = 25 °C		
	I _{R2}	@V _R = 60V, Pulse,	420	mA
		T _J = 125 °C		
Max. Junction Capacitance	C _T	$@V_R = 5V, T_C = 25 ^{\circ}C$	4800	pF
		$f_{SIG} = 1MHz,$		
		$V_{SIG} = 50 \text{mV (p-p)}$		
Maximum Thermal Resis.	$R_{\theta JC}$	-	0.62	°C/W

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Mechanical Dimensions: In Inches / mm





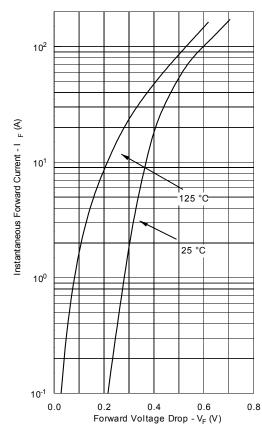
TO-254

PINOUT TABLE

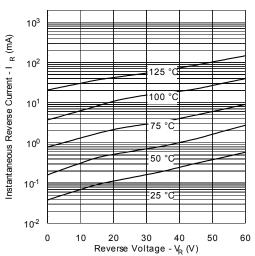
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

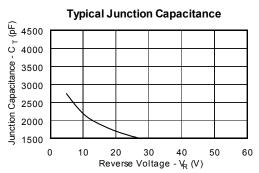
Note: The V_f curves shown are for the un-packaged die only.

Typical Forward Characteristics



Typical Reverse Characteristics





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