

TECHNICAL DAT
DATA SHEET 1008, REV. A

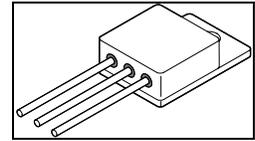
HERMETIC POWER SCHOTTKY RECTIFIER Low Forward Voltage Drop (60 V, 35A)

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:

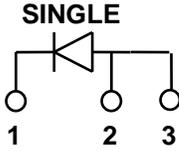
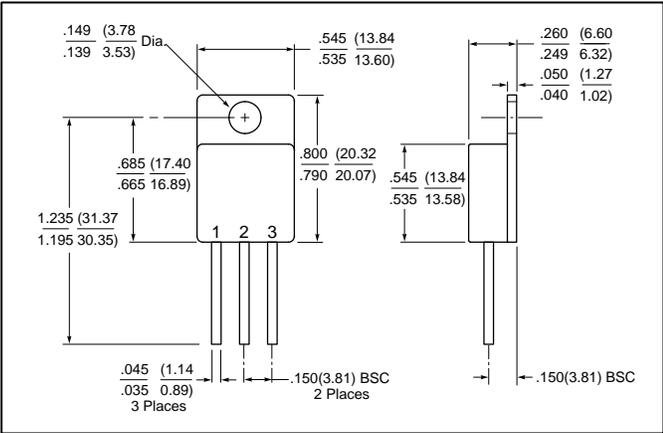
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	60	V
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle @ $T_C=100^{\circ}C$, rectangular wave form	35	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine pulse	150	A
Max. Junction Temperature	T_J	-	-65 to +150	$^{\circ}C$
Max. Storage Temperature	T_{stg}	-	-65 to +150	$^{\circ}C$

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 35 A, Pulse, $T_J = 25^{\circ}C$	0.75	V
	V_{F2}	@ 35 A, Pulse, $T_J = 125^{\circ}C$	0.64	V
Max. Reverse Current	I_{R1}	@ $V_R = 60V$, Pulse, $T_J = 25^{\circ}C$	9.0	mA
	I_{R2}	@ $V_R = 60V$, Pulse, $T_J = 125^{\circ}C$	420	mA
Max. Junction Capacitance	C_T	@ $V_R = 5V$, $T_C = 25^{\circ}C$ $f_{SIG} = 1MHz$, $V_{SIG} = 50mV$ (p-p)	4800	pF
Maximum Thermal Resis.	$R_{\theta JC}$	-	0.33	$^{\circ}C/W$

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Mechanical Dimensions: In Inches / mm



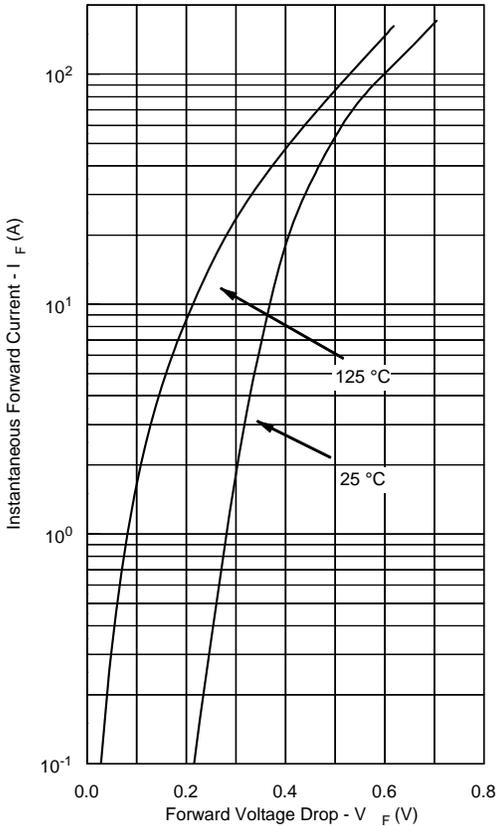
TO-254

PINOUT TABLE

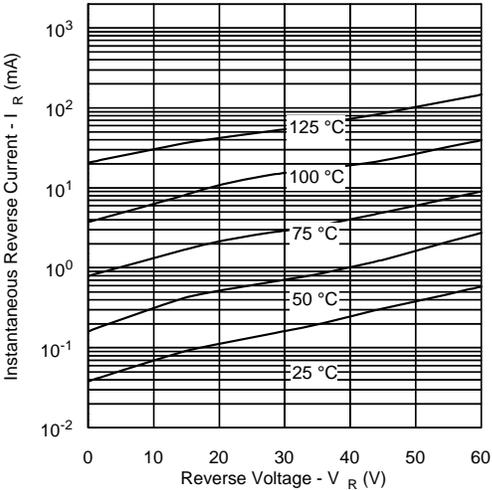
TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE

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

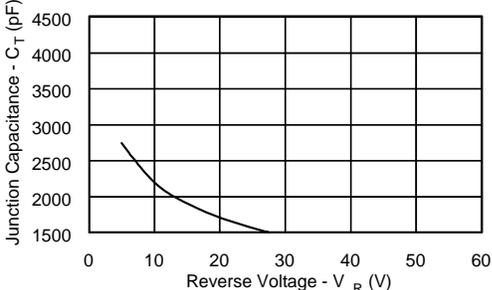
Typical Forward Characteristics



Typical Reverse Characteristics



Typical Junction Capacitance



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