TECHNICAL DATA DATA SHEET 1009, REV. B

SILICON SCHOTTKY RECTIFIER Ultra Low Reverse Leakage 200°C Operating Temperature

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:

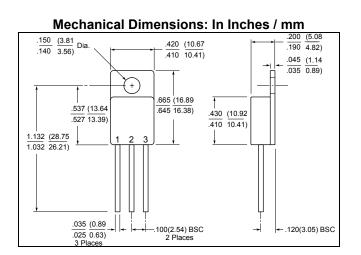
Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	100	V
Max. Average Forward Current	I _{F(AV)} 50% duty cycle, rectangular wave form		16	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM} 8.3 ms, half Sine wave		75	А
Max. Junction Temperature	T_J	-	-65 to +200	°C
Max. Storage Temperature	T _{stg}	-	-65 to +175	°C
Thermal Resistance	$R_{ ext{ heta}JC}$	-	0.77	°C/W

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 16A, Pulse, T _J = 25 °C	0.90	V
	V_{F2}	@ 16A, Pulse, T _J = 125 °C	0.71	V
Max. Reverse Current	I _{R1}	@V _R = 100V, Pulse,	0.02	mA
		T _J = 25 °C		
	I _{R2}	@V _R = 100V, Pulse,	2.0	mA
		T _J = 125 °C		
Max. Junction Capacitance C _T		$@V_R = 5V, T_C = 25 ^{\circ}C$	1000	pF
		$f_{SIG} = 1MHz,$		
		$V_{SIG} = 50 \text{mV (p-p)}$		

[•] World Wide Web Site - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •

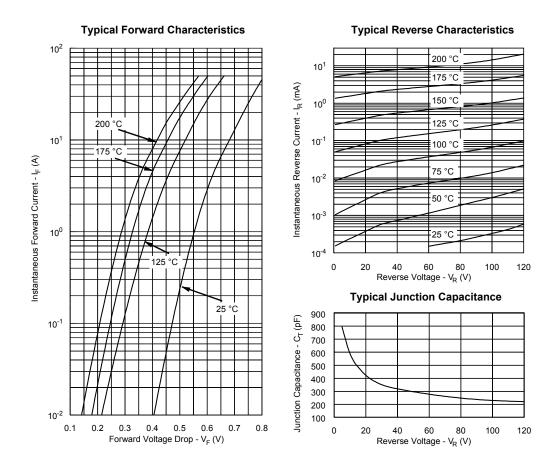
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TO-257

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

Vf curves are for unpackaged die



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SENSITRON SEMICONDUCTOR

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