

TECHNICAL DATA
DATA SHEET 4808, REV. A**SILICON SCHOTTKY RECTIFIER**
Ultra Low Reverse Leakage
150°C Operating Temperature**Applications:**

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

Features:

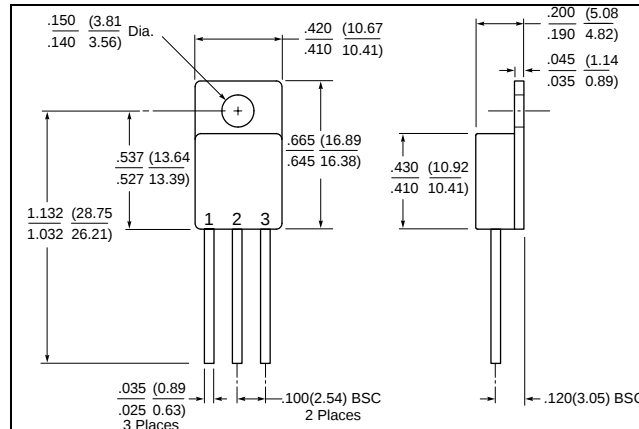
- Ultra low Reverse Leakage Current
- Soft Reverse Recovery at Low and High Temperature
- Very Low Forward Voltage Drop
- Low Power Loss, High Efficiency
- High Surge Capacity
- Guard Ring for Enhanced Durability and Long Term Reliability
- Guaranteed Reverse Avalanche Characteristics

Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	45	V
Max. Average Forward Current	$I_{F(AV)}$	50% duty cycle, rectangular wave form	16	A
Max. Peak One Cycle Non-Repetitive Surge Current	I_{FSM}	8.3 ms, half Sine wave	200	A
Max. Junction Temperature	T_J	-	-65 to +150	°C
Max. Storage Temperature	T_{stg}	-	-65 to +150	°C
Thermal Resistance	$R_{\theta JC}$	-	1.15	°C/W

Electrical Characteristics:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 16A, Pulse, $T_J = 25^\circ\text{C}$	0.65	V
	V_{F2}	@ 16A, Pulse, $T_J = 125^\circ\text{C}$	0.61	V
Max. Reverse Current	I_{R1}	@ $V_R = 45\text{V}$, Pulse, $T_J = 25^\circ\text{C}$	0.1	mA
	I_{R2}	@ $V_R = 45\text{V}$, Pulse, $T_J = 125^\circ\text{C}$	50	mA
Max. Junction Capacitance	C_T	@ $V_R = 5\text{V}$, $T_C = 25^\circ\text{C}$ $f_{SIG} = 1\text{MHz}$, $V_{SIG} = 50\text{mV (p-p)}$	2300	pF

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DATA SHEET 4808, REV. A**Mechanical Dimensions: In Inches / mm****TO-257**

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

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