

TECHNICAL DATA DATA SHEET 4806, 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

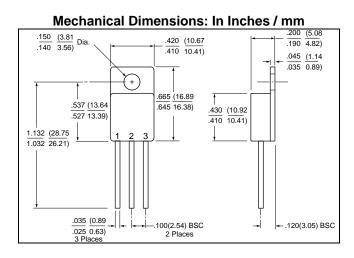
Maximum Ratings:

Characteristics	Symbol	Condition	Max.	Units
Peak Inverse Voltage	V_{RWM}	-	30	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	300	Α
Max. Junction Temperature	TJ	-	-65 to +150	°C
Max. Storage Temperature	T _{stg}	-	-65 to +150	°C
Thermal Resistance	$R_{\theta,JC}$	-	1.15	°C/W

Electrical Characteristics:

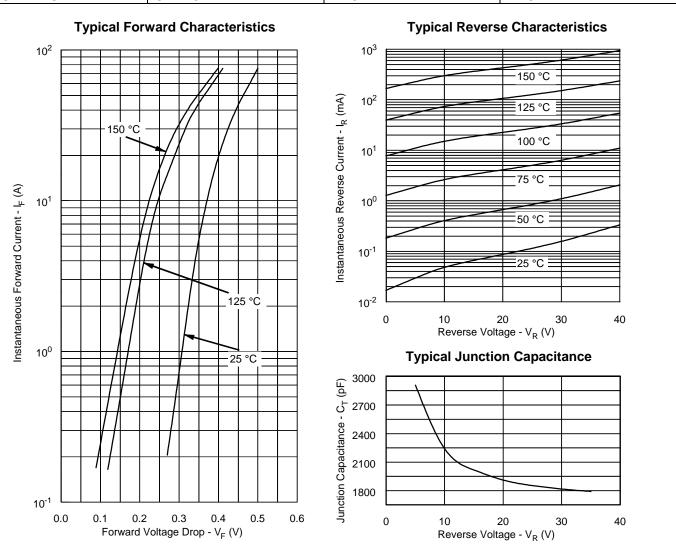
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 16A, Pulse, T _J = 25 °C	0.55	V
	V_{F2}	@ 16A, Pulse, T _J = 125 °C	0.49	V
Max. Reverse Current	I _{R1}	@V _R = 30V, Pulse,	1	mA
		$T_J = 25 ^{\circ}C$		
	I _{R2}	$@V_R = 30V$, Pulse,	230	mA
		T _J = 125 °C		
Max. Junction Capacitance	C _T	$@V_R = 5V, T_C = 25 ^{\circ}C$	4000	pF
		$f_{SIG} = 1MHz,$		
		$V_{SIG} = 50 \text{mV (p-p)}$		

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TO-257

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



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TECHNICAL DATA

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