

TECHNICAL DATA DATASHEET 4750, REV. A

SILICON SCHOTTKY RECTIFIER Ultra Low Reverse Leakage 100°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}	-	15	V
Max. Average Forward Current	I _{F(AV)}	Maximum DC Output Current (@ T _C =100 ^O C) (Single, Doubler)	3.0	A
Max. Average Forward Current	I _{F(AV)}	Maximum DC Output Current (@ T _C =100 ^O C) (Common Cathode, Common Anode)	6.0	Α
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave	55	А
Maximun Thermal Resistence (Single)	$R_{\theta JC}$	-	6.35	°C/W
Maximun Thermal Resistence (Common Cathode, Common Anode, Doubler)	$R_{ heta JC}$	-	3.17	°C/W
Max. Junction Temperature	TJ	-	-65 to +100	°C
Max. Storage Temperature	T _{stg}	-	-65 to +100	°C

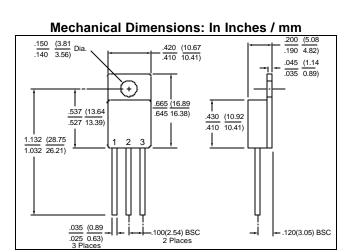
Electrical Characteristics Per Leg:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 3 A, Pulse, T _J = 25 °C	0.47	V
	V_{F2}	@ 3 A, Pulse, T _J = 125 °C	0.43	V
Max. Reverse Current	I _{R1}	@V _R = 15 V, Pulse,	1.5	mA
		T _J = 25 °C		
	I_{R2}	@V _R = 15 V, Pulse,	70	mA
		T _J = 125 °C		
Max. Junction Capacitance	C_T	$@V_R = 5V, T_C = 25 ^{\circ}C$	240	pF
		$f_{SIG} = 1MHz,$		
		$V_{SIG} = 50 \text{mV (p-p)}$		

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

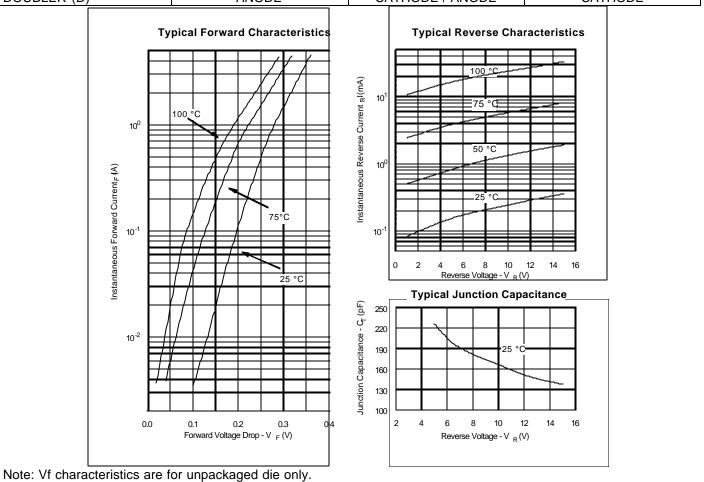
SENSITRON

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TO-257

DEVICE TYPE	PIN 1	PIN 2	PIN 3
SINGLE RECTIFIER	CATHODE	ANODE	ANODE
COMMON CATHODE (P)	ANODE 1	COMMON CATHODE	ANODE 2
COMMON ANODE (N)	CATHODE 1	COMMON ANODE	CATHODE 2
DOUBLER (D)	ANODE	CATHODE / ANODE	CATHODE



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TECHNICAL DATA

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