

TECHNICAL DATA DATASHEET 4754, REV. A

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
- 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)} Maximum DC Output Current (@ T _C =100 ^O C) (Single, Doubler)		7.5	A
Max. Average Forward Current	I _{F(AV)}	Maximum DC Output Current (@ T _C =100 ^O C) (Common Cathode, Common Anode)	15	A
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave	75	A
Maximun Thermal Resistence (Single)	$R_{\theta JC}$	-	2.71	°C/W
Maximun Thermal Resistence (Common Cathode, Common Anode, Doubler)	$R_{ heta JC}$	-	1.36	°C/W
Max. Junction Temperature	TJ	-	-65 to +200	°C
Max. Storage Temperature	T _{stg}	-	-65 to +200	°C

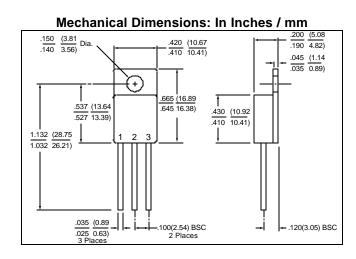
Electrical Characteristics Per Leg:

Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V _{F1}	@ 7.5 A, Pulse, T _J = 25 °C	0.93	V
	V_{F2}	@ 7.5 A, Pulse, T _J = 125 °C	0.77	V
Max. Reverse Current	I _{R1}	@V _R = 100 V, Pulse,	0.01	mA
		T _J = 25 °C		
	I_{R2}	@V _R = 100 V, Pulse,	0.5	mA
		T _J = 125 °C		
Max. Junction Capacitance	C _T	$@V_R = 5V, T_C = 25 ^{\circ}C$	250	pF
		$f_{SIG} = 1MHz,$		
		$V_{SIG} = 50 \text{mV (p-p)}$		

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

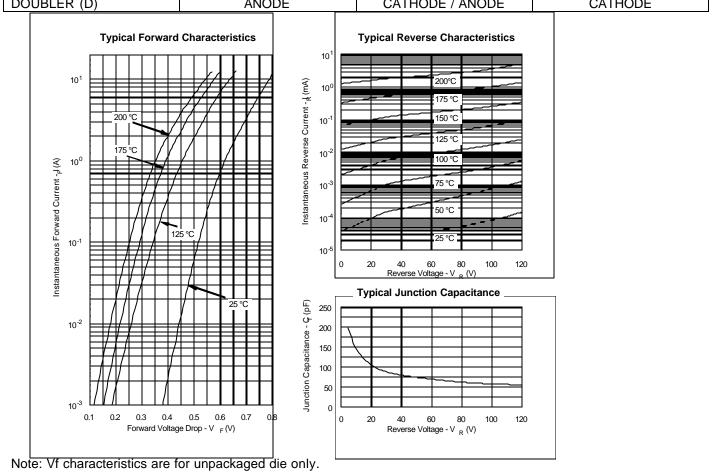
SENSITRON

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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



^{• 221} West Industry Court ☐ Deer Park, NY 11729-4681 ☐ (631) 586-7600 FAX (631) 242-9798 • World Wide Web - http://www.sensitron.com • E-Mail Address - sales@sensitron.com •



TECHNICAL DATA

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