

TECHNICAL DATA DATA SHEET 4756, REV. -

POWER SCHOTTKY RECTIFIER Very Low Reverse Leakage

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}	-	60	V
Max. Average Forward Current	I _{F(AV)}	50% duty cycle, rectangular wave form	120	А
Max. Peak One Cycle Non- Repetitive Surge Current	I _{FSM}	8.3 ms, half Sine wave (per leg)	1650	Α
Non-Repetitive Avalanche Energy	E _{AS}	$T_J = 25 ^{\circ}\text{C}, I_{AS} = 1.3 \text{A},$ L = 40mH (per leg)	27	mJ
Repetitive Avalanche Current	I _{AR}	I_{AS} decay linearly to 0 in 1 μs f limited by T_J max V_A =1.5 V_R	1.3	А
Thermal Resistance	R _{thJC}	Per Package	0.2	°C/W
Max. Junction Temperature	T_J	-	-65 to +150	°C
Max. Storage Temperature	T _{stg}	-	-65 to +150	°C

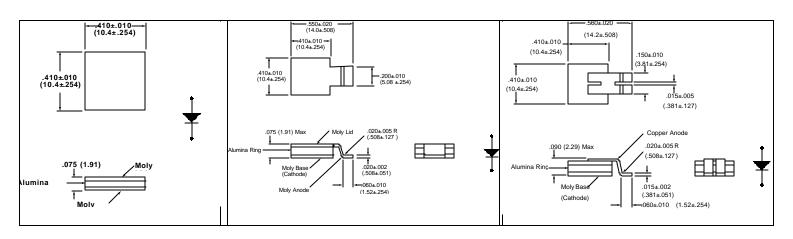
Electrical Characteristics:

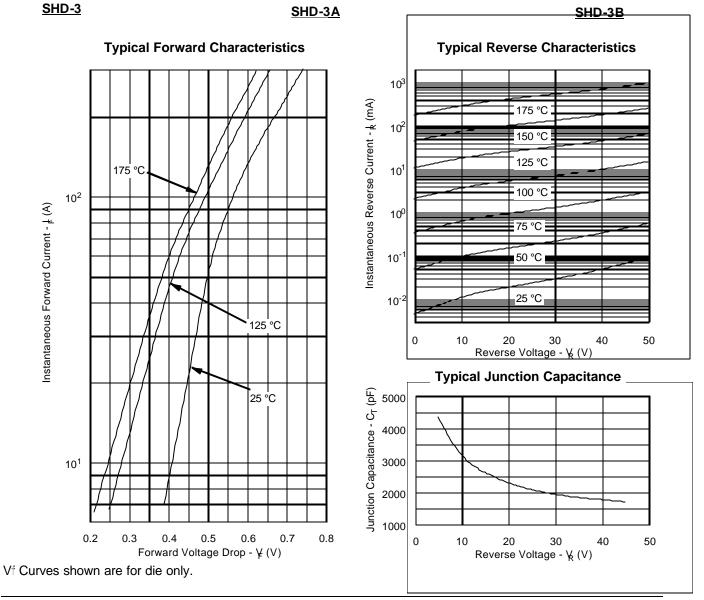
Characteristics	Symbol	Condition	Max.	Units
Max. Forward Voltage Drop	V_{F1}	@ 120A, Pulse, T _J = 25 °C	0.60	V
		(per leg) measured at the leads		
	V_{F2}	@ 120A, Pulse, T _J = 125 °C	0.57	V
		(per leg) measured at the leads		
Max. Reverse Current	I _{R1}	@V _R = 60V, Pulse,	11	mA
		T _J = 25 °C (per leg)		
	I _{R2}	@V _R = 60V, Pulse,	840	mA
		T _J = 125 °C (per leg)		
Max. Junction Capacitance	C _T	@V _R = 5 V, T _C = 25 °C	4800	pF
		$f_{SIG} = 1 MHz,$		
		$V_{SIG} = 50 \text{mV (p-p) (per leg)}$		

SENSITRON

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Mechanical Dimensions: in inches / mm





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



TECHNICAL DATA

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