

Features:

MMBD4448W SWITCHING DIODE

- Fast switching speed
- Surface mount package ideally suited for automatic insertion
- For general purpose switching applications
- High conductance

Mechanical Data:

- Case: SOT-323, Molded plastic body
- Terminals: Plated leads solderable per MIL-STD-202, Method 208
- Polarity: Polarity symbols marked on case
- Marking: KA3

Mechanical Dimensions: In Inches / mm

θ





0°

Symbol A A1 A2 b c D E E1 e e1 L	Dimensions In Millimeters		Dimensions In Inches		
	Min	Max	Min	Max	
А	0.900	1.100	0.035	0.043	
A1	0.000	0.100	0.000	0.004	
A2	0.900	1.000	0.035	0.039	
b	0.200	0.400	0.008	0.016	
C	0.080	0.150	0.003	0.006	
D	2.000	2.200	0.079	0.087	
E	1.150	1.350	0.045	0.053	
E1	2.150	2.450	0.085	0.096	
е	0.650 TYP		0.026 TYP		
e1	1.200	1.400	0.047	0.055	
L	0.525 REF		0.021 REF		
L1	0.260	0.460	0.010	0.018	

0.20

• China - Germany - Korea - Singapore - United States •

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SOT-323

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http://www.smc-diodes.com - sales@ smc-diodes.com -







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Ordering Information:

Device	Package	Shipping
MMBD4448W	SOT-323(Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings @Ta=25℃

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	V _{RM}	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V _{RRM} V _{RWM} V _R	75	V
RMS Reverse Voltage	V _{R(RMS)}	53	V
Forward Continuous Current	IFM	500	mA
Average Rectified Output Current	lo	250	mA
Non-Repetitive Peak Forward Surge Current @t=8.3ms	I _{FSM}	2.0	А
Power Dissipation	PD	200	mW
Thermal Resistance, Junction to Ambient	R _{0JA}	625	°C/W
Junction and Storage Temperature Range	T _J , T _{STG}	-55 to +150	°C

Electrical Characteristics @Ta=25℃

Characteristics	Symbol	Condition	Min.	Max.	Units
Forward Voltage Drop	V _{F1}	@ 5mA, Pulse, TJ = 25 °C	0.62	0.72	V
		@ 10mA, Pulse, TJ = 25 °C		0.855	
		@ 100mA, Pulse, T _J = 25 °C		1.0	
		@ 150mA, Pulse, T _J = 25 °C		1.25	
Reverse Current	I _{R1}	$@V_R = 75V, Pulse,$		2.5	μA
		T _J = 25 °C			
	I _{R2}	@ V _R = 20V, Pulse,		25	nA
		T _J = 25°C			
Capacitance between terminals	Ст	@V _R = 0 V, Tc=25℃		4	pF
		fsig = 1MHz			
Reverse Recovery Time	trr	I_F =10mA I_R = 10mA		4	ns
		T_J = 25 °C I_{rr} =1 mA R_L =100 Ω			

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Typical Characteristics



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