

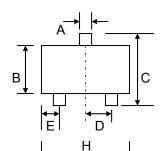


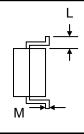
SURFACE MOUNT FAST SWITCHING DIODE



Features

- High Conductance
- Fast Switching
- Surface Mount Package Ideally Suited for Automatic Insertion
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0





Mechanical Data

Case: SOT-323, Molded Plastic

 Terminals: Plated Leads Solderable per MIL-STD-202, Method 208

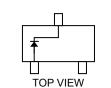
Polarity: See Diagram

• Weight: 0.006 grams (approx.)

Mounting Position: Any

Marking: A2

Lead Free: For RoHS / Lead Free Version,
 Add "-LF" Suffix to Part Number, See Page 4



SOT-323				
Dim	Min	Max		
Α	0.25	0.40		
В	1.15	1.35		
С	2.00	2.40		
D	0.65 Nominal			
E	0.30	0.40		
G	1.20	1.40		
Н	1.80	2.20		
J	— 0.10			
K	0.90	1.10		
L	0.25	_		
М	0.05	0.15		
All Dimensions in mm				

Maximum Ratings @TA=25°C unless otherwise specified

Characteristic		Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage		VRRM VRWM VR	100	V
Forward Continuous Current		lF	200	mA
Non-Repetitive Peak Forward Surge Current	@ t = 1.0µs @ t = 1.0s	IFSM	2.0 1.0	Α
Operating and Storage Temperature Range		ТЈ, Тѕтс	-55 to +150	°C

Thermal Characteristics

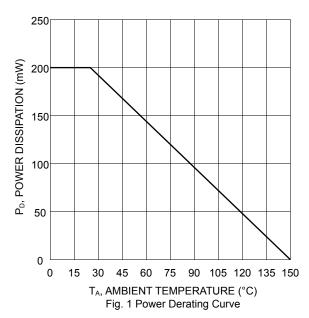
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	Pb	200	mW
Thermal Resistance, Junction to Ambient (Note 1)	R JA	625	°C/W

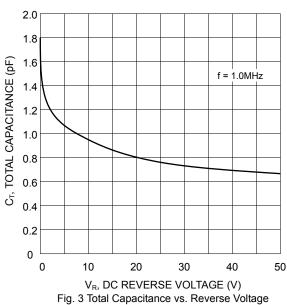
Note: 1. Mounted on FR-4 PC board with 25.4 x 25.4mm copper pads.

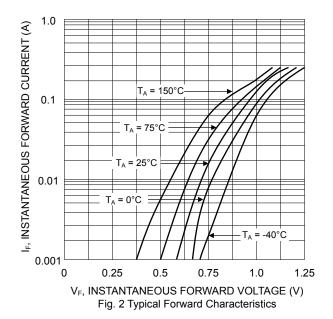


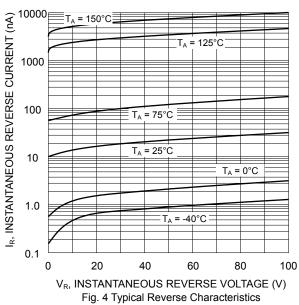
Electrical Characteristics @TA=25°C unless otherwise specified

Characteristic	Symbol	Min.	Тур.	Max.	Unit	
Reverse Breakdown Voltage	@ IR = 100µA	V(BR)	100			٧
Forward Voltage Drop	@ IF = 10mA @ IF = 100mA	Vғм			1.0 1.2	V
Peak Reverse Leakage Current	@ VR = 20V @ VR = 75V	lгм			25 5.0	nA μA
Diode Capacitance (VR = 0V, f = 1.0MHz)		C _D			4.0	pF
Reverse Recovery Time (IF=10mA, VR=6.0V, IRR=1.0mA, RL=100Ω)		trr			4.0	nS





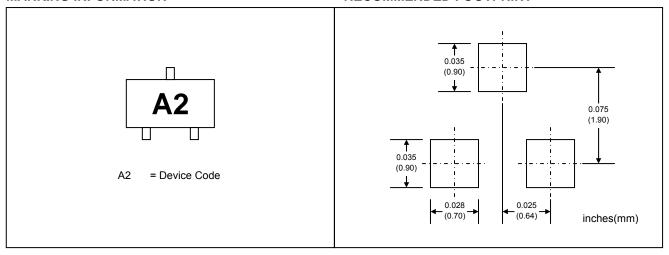




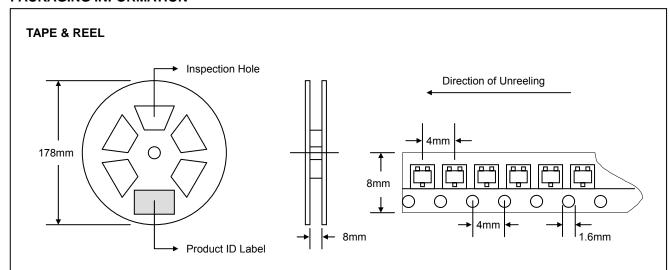


MARKING INFORMATION

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION



Reel Diameter (mm)	Quantity (PCS)	Inner Box Size L x W x H (mm)	Quantity (PCS)	Carton Size L x W x H (mm)	Quantity (PCS)	Approx. Gross Weight (KG)
178	3,000	187 x 187 x 65	15,000	390 x 240 x 420	150,000	10.0

Note: 1. Anti-static plastic reel, white, water clear or blue color. Inspection hole might be varied in different alignment.

2. Components are packed in accordance with EIA standard 481-1 and 481-2.



ORDERING INFORMATION

Product No.	Package Type	Shipping Quantity
MMBD4148W-T1	SOT-323	3000/Tape & Reel

- Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.
- To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MMBD4148W-T1-LF.

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WARNING: DO NOT USE IN LIFE SUPPORT EQUIPMENT. WTE power semiconductor products are not authorized for use as critical components in life support devices or systems without the express written approval.

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