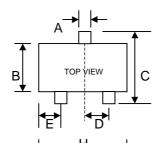


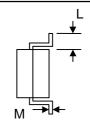
MMBD4148W

SURFACE MOUNT FAST SWITCHING DIODE

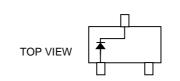
Features

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





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

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

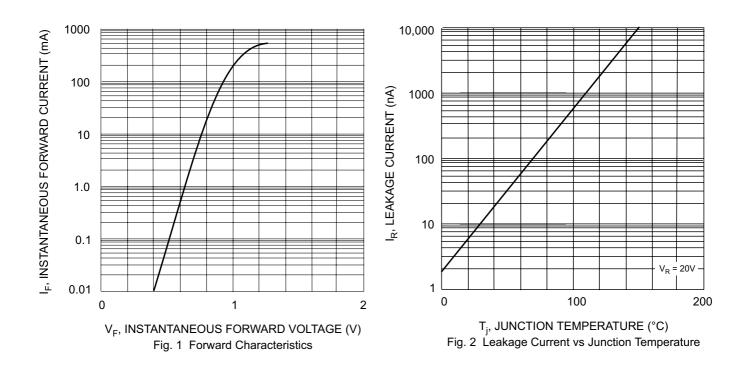
Maximum Ratings @T_A=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	75	V
Forward Continuous Current (Note 1)	lF	300	mA
Average Rectified Output Current (Note 1)	lo	200	mA
Peak Forward Surge Current (Note 1) @ t < 1.0μs	İFSM	2.0	Α
Power Dissipation (Note 1)	Pd	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	625	°C/W
Operating and Storage Temperature Range	Тj, Тsтg	-65 to +150	°C

Electrical Characteristics @T_A=25°C unless otherwise specified

Characteristic	Symbol	Min	Max	Unit	Test Condition
Forward Voltage	VF	_	0.855 1.0	V	@ IF = 10mA @ IF = 50mA
Reverse Leakage Current	lR	_	2.5	μΑ	@ VR = 75V
Junction Capacitance	Cj	_	2.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr	_	4.0	nS	$\begin{aligned} \text{IF} &= \text{IR} = 10\text{mA}, \\ \text{IRR} &= 0.1 \text{ x IR}, \text{ RL} = 100\Omega \end{aligned}$

Note: 1. Device mounted on fiberglass substrate 40 x 40 x 1.5mm.



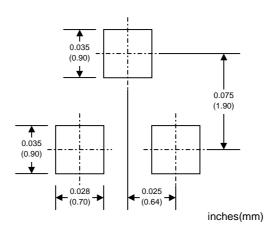
ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity		
MMBD4148W-T1	SOT-323	3000/Tape & Reel		
MMBD4148W-T3	SOT-323	10000/Tape & Reel		

Products listed in **bold** are WTE **Preferred** devices.

T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

RECOMMENDED FOOTPRINT



Won-Top Electronics Co., Ltd (WTE) has checked all information carefully and believes it to be correct and accurate. However, WTE cannot assume any responsibility for inaccuracies. Furthermore, this information does not give the purchaser of semiconductor devices any license under patent rights to manufacturer. WTE reserves the right to change any or all information herein without further notice.

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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We power your everyday.

Shipping quantity given is for minimum packing quantity only. For minimum order quantity, please consult the Sales Department.