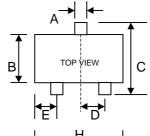
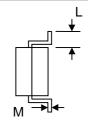


SURFACE MOUNT FAST SWITCHING DIODE

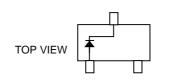
Features

- 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-23				
Dim	Min	Max		
Α	0.37	0.51		
В	1.19	1.40		
С	2.10	2.50		
D	0.89	1.05		
Е	0.45	0.61		
G	1.78	2.05		
Н	2.65	3.05		
J	0.013	0.15		
K	0.89	1.10		
L	0.45	0.61		
M	0.076	0.178		
All Dimensions in mm				

Mechanical Data

Case: SOT-23, Molded Plastic

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

Polarity: See Diagram

Weight: 0.008 grams (approx.)

Mounting Position: Any

Marking: T1

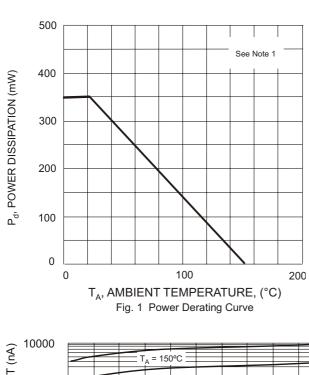
Maximum Ratings @T_A=25°C unless otherwise specified

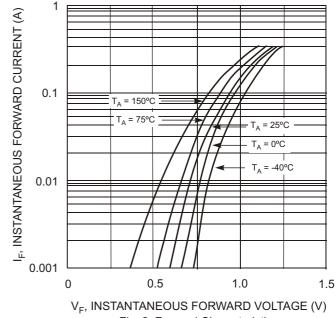
Characteristic	Symbol	Value	Unit
Non-Repetitive Peak Reverse Voltage	VRM	100	V
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	75	V
Average Rectified Output Current (Note 1)	lo	200	mA
Peak Forward Surge Current (Note 1) @ t < 1.0μs	IFSM	2.0	А
Power Dissipation (Note 1)	Pd	350	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{ heta}$ JA	357	°C/W
Operating and Storage Temperature Range	Тj, Tsтg	-65 to +150	°C

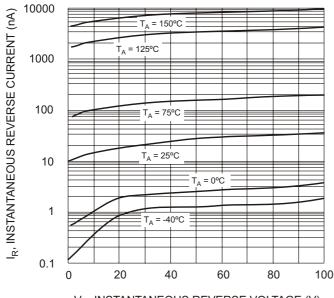
Electrical Characteristics @TA=25°C unless otherwise specified

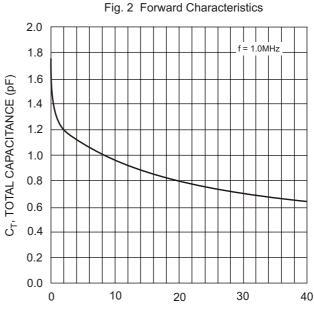
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	V(BR)R	75	_	V	@ IR = 100μA
Forward Voltage	VF	_	1.0	V	@ IF = 10mA
Reverse Leakage Current	lR	_	25 5.0	nΑ μΑ	@ VR = 20V @ VR = 75V
Junction Capacitance	Cj	_	4.0	pF	VR = 0V, f = 1.0MHz
Reverse Recovery Time	trr	_	4.0	nS	IF = IR = 10mA, IRR = 0.1 x IR, RL = 100Ω

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









V_R, INSTANTANEOUS REVERSE VOLTAGE (V) Fig. 3 Typical Reverse Characteristics

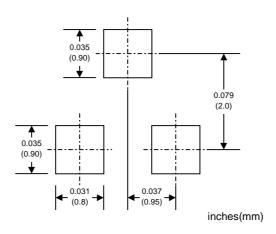
 $\label{eq:VR} {\rm V_{R},\,REVERSE\,VOLTAGE\,(V)}$ Fig. 4 Typical Capacitance vs. Reverse Voltage

ORDERING INFORMATION

Product No.◆	Package Type	Shipping Quantity
MMBD914-T1	SOT-23	3000/Tape & Reel
MMBD914-T3	SOT-23	10000/Tape & Reel

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

RECOMMENDED FOOTPRINT



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Internet: http://www.wontop.com

We power your everyday.

^{*}T1 suffix refers to a 7" reel. T3 suffix refers to a 13" reel.

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