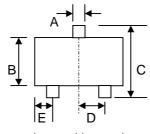


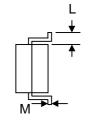


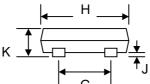
SURFACE MOUNT FAST SWITCHING DIODE

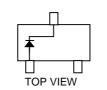
Features

- 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









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		
E	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 D	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

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

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	$\begin{aligned} \text{IF} &= \text{IR} = 10\text{mA}, \\ \text{IRR} &= 0.1 \text{ x IR}, \text{ RL} = 100 \Omega \end{aligned}$

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

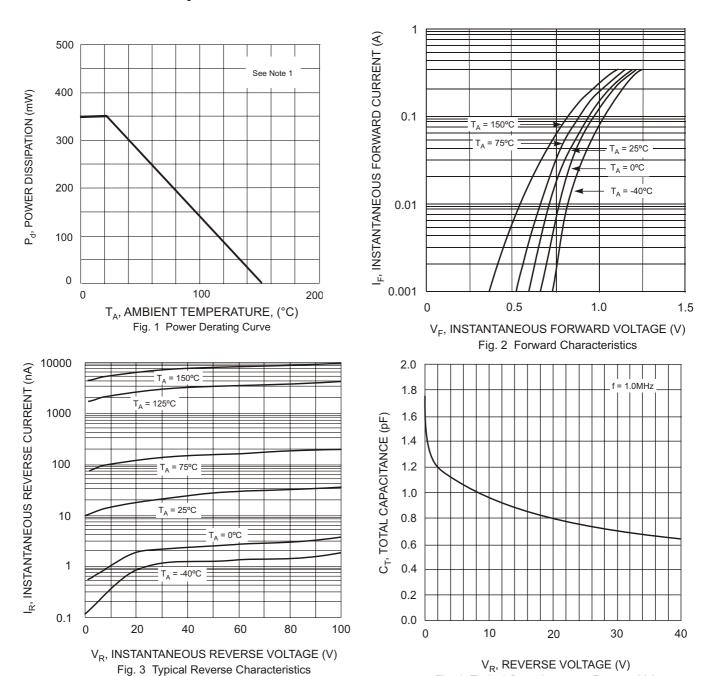
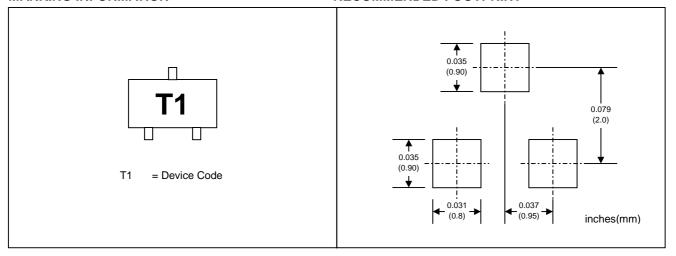


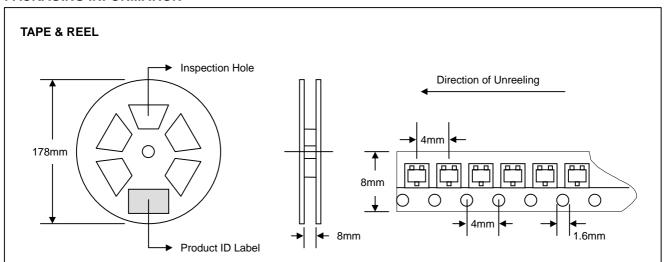
Fig. 4 Typical Capacitance vs. Reverse Voltage

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		
MMBD914-T1	SOT-23	3000/Tape & Reel		

- 1. 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, MMBD914-T1-LF. 2.

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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