

# MMBD770

## SURFACE MOUNT SCHOTTKY BARRIER DIODE

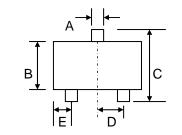


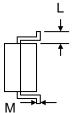
## **Features**

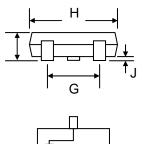
- Very Low Capacitance
- Low Reverse Leakage
- PN Junction Guard Ring for Transient and ESD Protection
- For General Purpose Switching Applications
- Plastic Material UL Recognition Flammability Classification 94V-0

## **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: 5H
- Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4







★	
TOP VIEW	

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	
Ð	1.20	1.40	
Н	1.80	2.20	
L	-	0.10	
κ	0.90	1.10	
L	0.25	-	
М	0.05	0.15	
All Dimensions in mm			

### Maximum Ratings @T<sub>A</sub>=25°C unless otherwise specified

Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	Vrrm Vrwm Vr	70	V
Forward Continuous Current	lf	200	mA
Non-Repetitive Peak Forward Surge Current, 60Hz	IFSM	1.0	А
Operating Temperature Range	TJ	-55 to +125	°C
Storage Temperature Range	Тѕтс	-55 to +150	°C

ĸ

## **Thermal Characteristics**

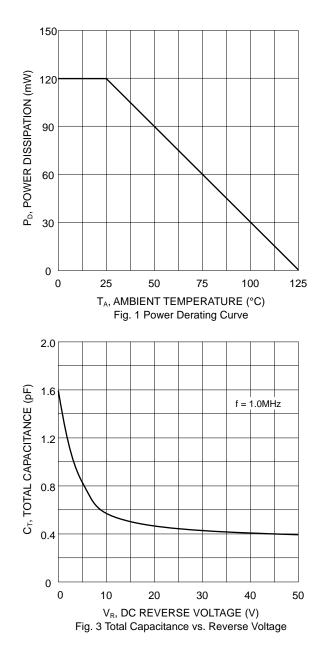
Characteristic	Symbol	Value	Unit
Power Dissipation (Note 1)	PD	120	mW

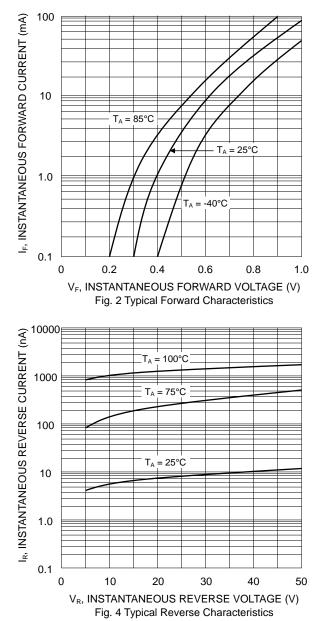
Note: 1. Mounted on FR-4 PC board with minimum recommended pad layout.



# **Electrical Characteristics** $@T_A=25^{\circ}C$ unless otherwise specified

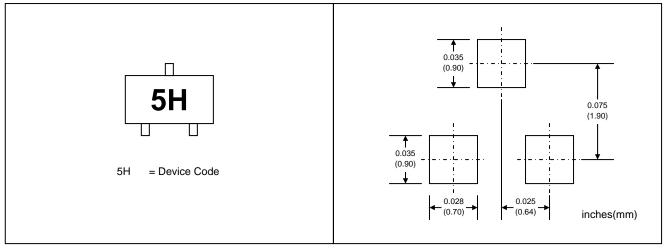
Characteristic		Symbol	Min.	Тур.	Max.	Unit
Reverse Breakdown Voltage	@ IR = 10µA	V(BR)	70			V
Forward Voltage Drop	@ IF = 1.0mA @ IF = 10mA	VF		0.42 0.70	0.50 1.00	V
Reverse Leakage Current	@ VR = 35V	IR		9.0	200	nA
Diode Capacitance (VR = 0V, f = 1.0MHz)		CD		0.5	1.0	pF
Toal Capacitance (VR = 20V, f = 1.0MHz)		Ст		0.5	1.0	pF





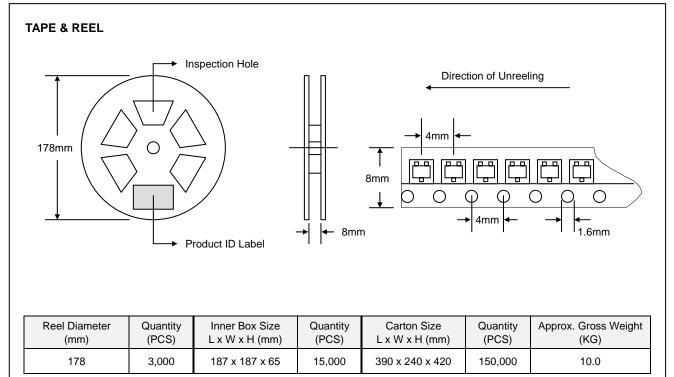


### MARKING INFORMATION



**RECOMMENDED FOOTPRINT** 

## PACKAGING INFORMATION



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
MMBD770-T1	SOT-323	3000/Tape & Reel

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

2. To order RoHS / Lead Free version (with Lead Free finish), add "-LF" suffix to part number above. For example, MMBD770-T1-LF.

WON-TOP ELECTRONICS and *we are registered trademarks of Won-Top Electronics Co., Ltd (WTE). 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.

Won-Top Electronics Co., Ltd. No. 44 Yu Kang North 3rd Road, Chine Chen Dist., Kaohsiung 806, Taiwan Phone: 886-7-822-5408 or 886-7-822-5410 Fax: 886-7-822-5417 Email: sales@wontop.com Internet: http://www.wontop.com

