



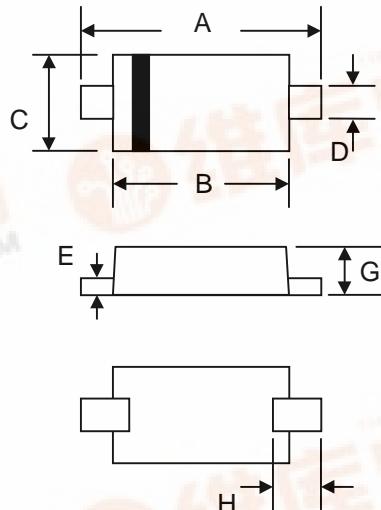
# MMBD717WS



## SURFACE MOUNT SCHOTTKY BARRIER DIODE

### Features

- Low Turn-on Voltage
- Fast Switching
- PN Junction Guard Ring for Transient and ESD Protection
- Designed for Surface Mount Application
- Plastic Material – UL Recognition Flammability Classification 94V-O



SOD-323		
Dim	Min	Max
A	2.30	2.70
B	1.75	1.95
C	1.15	1.35
D	0.25	0.35
E	0.05	0.15
G	0.70	0.95
H	0.30	—

All Dimensions in mm

### Mechanical Data

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: Cathode Band
- Weight: 0.004 grams (approx.)
- Marking: P70
- **Lead Free: For RoHS / Lead Free Version, Add “-LF” Suffix to Part Number, See Page 3**

### Maximum Ratings @ $T_A=25^\circ\text{C}$ unless otherwise specified

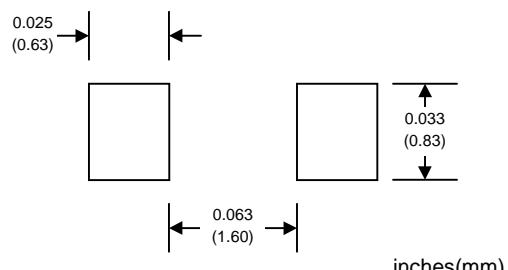
Characteristic	Symbol	MMBD717WS		Unit
Peak Repetitive Reverse Voltage	$V_{RRM}$			
Working Peak Reverse Voltage	$V_{RWM}$	20		V
DC Blocking Voltage	$V_R$			
Forward Continuous Current (Note 1)	$I_F$	200		mA
Forward Surge Current @ $t < 1.0\text{s}$	$I_{FSM}$	600		mA
Power Dissipation (Note 1)	$P_d$	200		mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	625		°C/W
Operating and Storage Temperature Range	$T_j, T_{STG}$	-55 to +125		°C

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

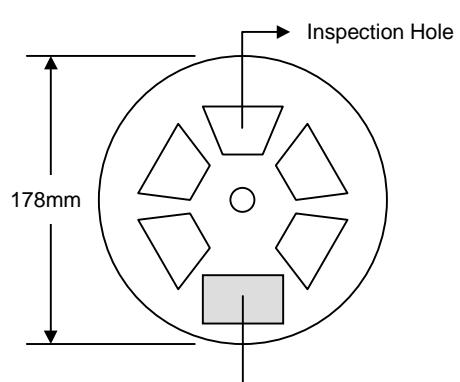
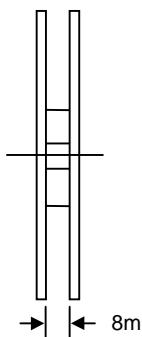
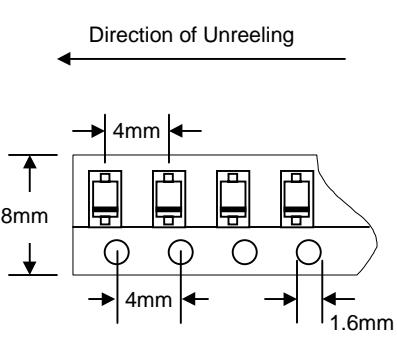
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	20	—	V	@ $I_R = 10\mu\text{A}$
Forward Voltage	$V_F$	—	370	mV	@ $I_F = 1.0\text{mA}$ , $t < 300\mu\text{s}$
Reverse Leakage Current	$I_R$	—	200	nA	@ $V_R = 10\text{V}$ , $t < 300\mu\text{s}$
Junction Capacitance	$C_j$	—	2.5	pF	$V_R = 0\text{V}$ , $f = 1.0\text{MHz}$
Reverse Recovery Time	$t_{rr}$	—	5.0	nS	$I_F = 10\text{mA}$ through $I_R = 10\text{mA}$ to $I_R = 1.0\text{mA}$ , $R_L = 100\Omega$

Note: 1. Device on fiberglass substrate.

## MARKING INFORMATION

MARKING INFORMATION	RECOMMENDED FOOTPRINT
 <p>Cathode = Polarity Band P70 = Device Code</p>	 <p>0.025 (0.63) 0.063 (1.60) 0.033 (0.83) inches(mm)</p>

## PACKAGING INFORMATION

TAPE & REEL						
 <p>178mm Inspection Hole Product ID Label</p>	 <p>8mm</p>	 <p>Direction of Unreeling 4mm 8mm 4mm 1.6mm</p>				
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	5,000	187 x 187 x 65	25,000	390 x 240 x 420	250,000	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
MMBD717WS-T1	SOD-323	5000/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, MMBD717WS-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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