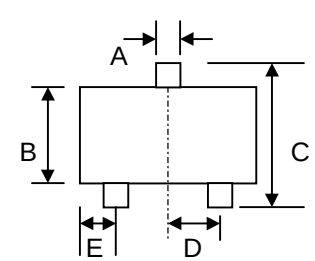
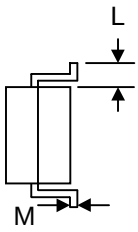
MMBD717W / AW / CW / SW

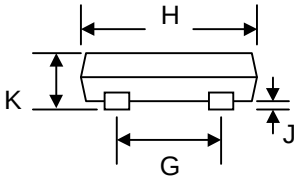
SURFACE MOUNT SCHOTTKY BARRIER DIODE

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



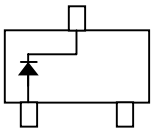




SOT-323		
Dim	**Min**	**Max**
A	0.30	0.40
B	1.15	1.35
C	2.00	2.20
D	0.65 Nominal	
E	0.30	0.40
G	1.20	1.40
H	1.80	2.20
J	—	0.10
K	0.90	1.10
L	0.25	—
M	0.05	0.15
All Dimensions in mm		

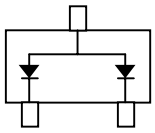
Mechanical Data

- Case: SOT-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity: See Diagrams Below
- Weight: 0.006 grams (approx.)
- Mounting Position: Any
- **Lead Free: For RoHS / Lead Free Version, Add "-LF" Suffix to Part Number, See Page 4**



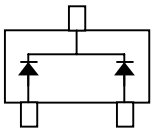
TOP VIEW

MMBD717W Marking: P70



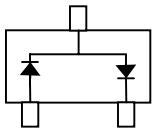
TOP VIEW

MMBD717AW Marking: P72



TOP VIEW

MMBD717CW Marking: P73



TOP VIEW

MMBD717SW Marking: P74

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25℃ unless otherwise specified

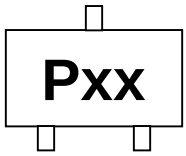
Characteristic	Symbol	Value	Unit
Peak Repetitive Reverse Voltage Working Peak Reverse Voltage DC Blocking Voltage	V_{RRM} V_{RWM} V_R	20	V
Forward Continuous Current (Note 1)	I_F	200	mA
Forward Surge Current (Note 1) @ t < 1.0s	I_{FSM}	600	mA
Power Dissipation (Note 1)	P_d	200	mW
Typical Thermal Resistance, Junction to Ambient Air (Note 1)	$R_{\theta JA}$	625	℃/W
Operating and Storage Temperature Range	T_j, T_{STG}	-55 to +150	℃

Note: 1. Device on fiberglass substrate.

Maximum Ratings and Electrical Characteristics, Single Diode @T_A=25℃ unless otherwise specified

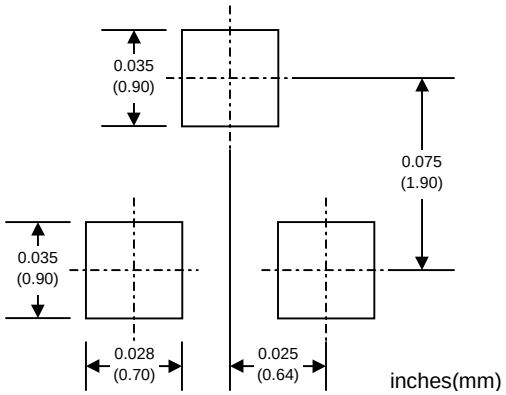
Characteristic	Symbol	Min	Max	Unit	Test Condition
Reverse Breakdown Voltage	$V_{(BR)R}$	20	—	V	@ I_R = 10μA
Forward Voltage	V_F	—	370	mV	@ I_F = 1.0mA, t_p < 300μs
Reverse Leakage Current	I_R	—	200	nA	@ V_R = 10V, t_p < 300μs
Junction Capacitance	C_j	—	2.5	pF	V_R = 0V, f = 1.0MHz
Reverse Recovery Time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

MARKING INFORMATION



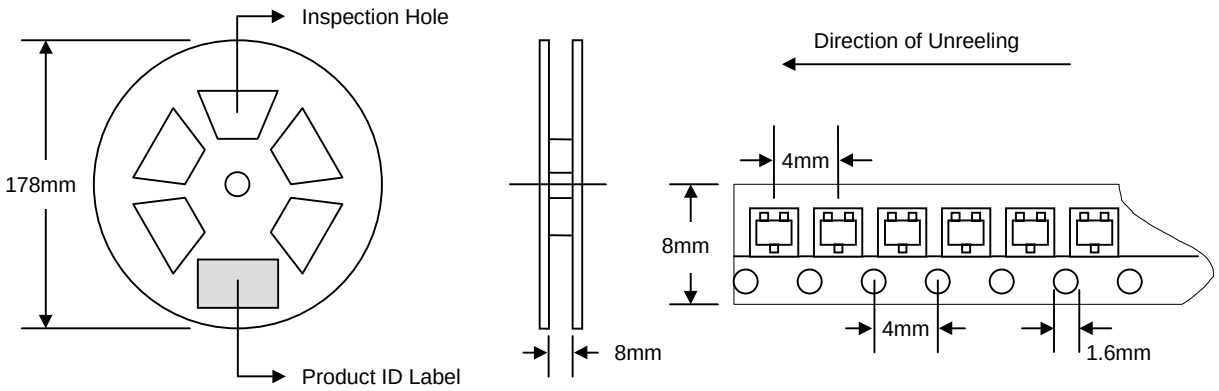
Pxx = Device Code
xx = 70 (MMBD717W)
72 (MMBD717AW)
73 (MMBD717CW)
74 (MMBD717SW)

RECOMMENDED FOOTPRINT



PACKAGING INFORMATION

TAPE & REEL



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
MMBD717W-T1	SOT-323	3000/Tape & Reel
MMBD717AW-T1	SOT-323	3000/Tape & Reel
MMBD717CW-T1	SOT-323	3000/Tape & Reel
MMBD717SW-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, MMBD717W-T1-LF**.

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