



# MMBD717WS

## SURFACE MOUNT SCHOTTKY DIODES

**VOLTAGE** 20 Volt **CURRENT** 200 mA

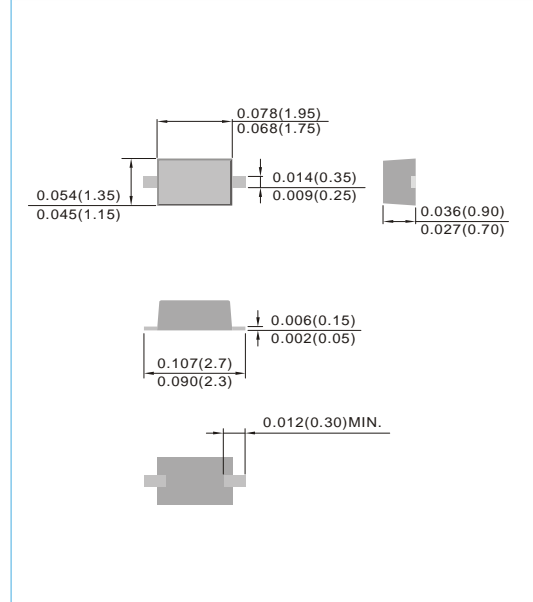
**SOD-323** Unit : inch(mm)

### FEATURES

- Very Low  $V_F$ : 0.32V (Typ) at  $I_F = 1\text{mA}$
- Low Capacitance: 2.5 pF (Max) at  $V_R=0\text{V}$
- Extremely Fast Switching Speed
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

### MECHANICAL DATA

- Case: SOD-323, Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Approx. Weight: 0.00014 ounces, 0.0041 grams



## MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS

Ratings at 25°C ambient temperature unless otherwise specified.  
Single phase, half wave, 60Hz, resistive or inductive load.  
For capacitive load, derate current by 20%

Parameter	Symbol	Value	Units
Marking Code	-	P70	-
Maximum Reverse Voltage	$V_R$	20	V
Peak Reverse Voltage	$V_{RRM}$	20	V
Maximum Forward Current	$I_F$	0.2	A
Power Dissipation (1)	$P_{TOT}$	200	mW
Thermal Resistance , Junction to Ambient (1)	$R_{\theta JA}$	625	°C/W
Junction Temperature Range	$T_J$	-55 to +150	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

Note:

1. FR-4 Board = 70 x 60 x 1mm.



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## ELECTRICAL CHARACTERISTICS (each diode) ( $T_J = 25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	20	-	-	V
Reverse Leakage Current	$I_R$	$V_R=10\text{V}$	-	-	1	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=1\text{mA}$	-	-	0.37	V
Total Capacitance	$C_J$	$V_R=1\text{V}, f=1\text{MHz}$	-	-	2.5	pF

## ELECTRICAL CHARACTERISTICS CURVE

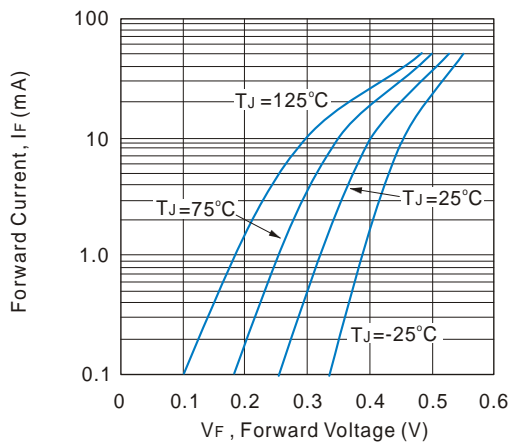


Fig. 1. Typical Forward Voltage

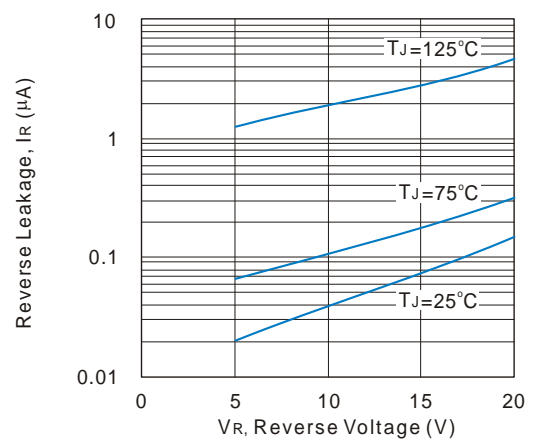


Fig. 2. Typical Reverse Leakage

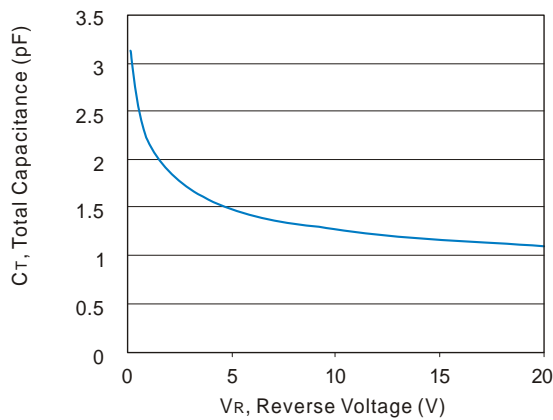
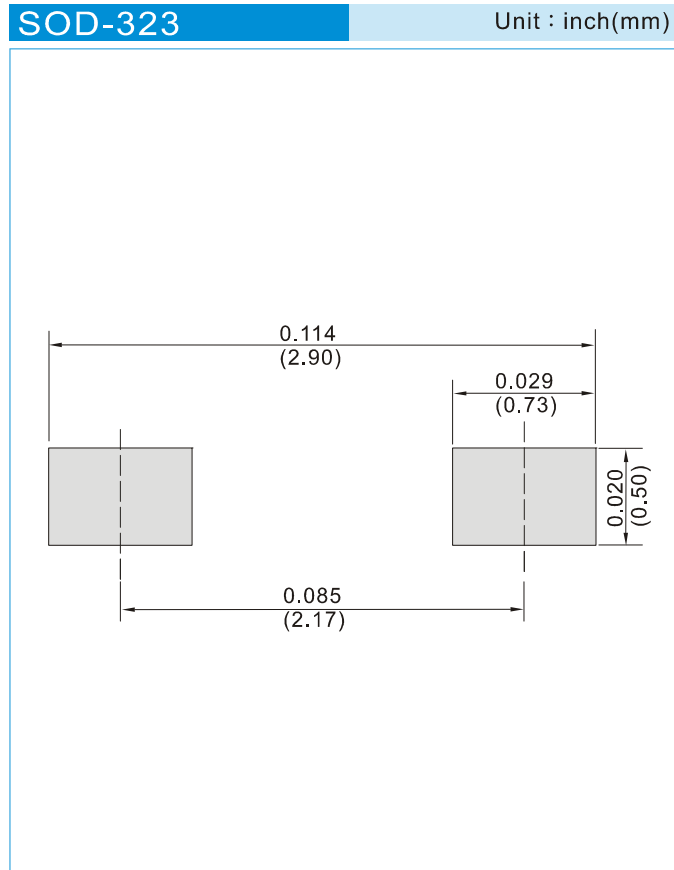


Fig. 3. Typical Total Capacitance



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information  
T/R - 12K per 13" plastic Reel  
T/R - 5K per 7" plastic Reel



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## Part No\_packing code\_Version

MMBD717WS\_R1\_00001

MMBD717WS\_R2\_00001

For example :

**RB500V-40** **R2** **00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	26mm	X			
Tape and Reel (Right Oriented) (TRR)	S	52mm	Y			
Tape and Reel (Left Oriented) (TRL)	L	PANASERT T/B CATHODE UP (PBCU)	U			
FORMING	F	PANASERT T/B CATHODE DOWN (PBCD)	D			



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