



# MMBD101WS

## SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

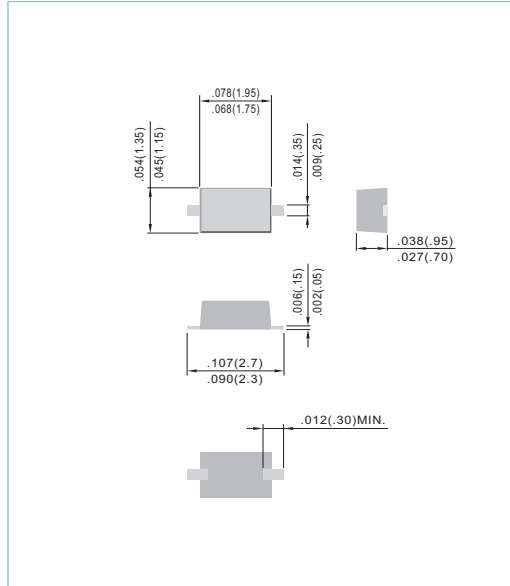
**VOLTAGE** 7.0 Volts    **POWER** 250mWatts    **SOD-323**    Unit: inch (mm)

### FEATURES

- Low Capacitance, Minimizing Insertion Losses in VHF Applications
- Low  $V_F$  : 0.5V (Typ) at  $I_F = 10\text{mA}$
- Extremely Fast Switching Speed
- In compliance with EU RoHS 2002/95/EC directives

### MECHANICAL DATA

- Case: SOD-323 plastic case.
- Terminals : Solderable per MIL-STD-750, Method 2026
- Weight: approximately 0.0041gram



### MAXIMUM RATINGS

Parameter	Symbol	MMBD101WS	Units
Marking Code	-	101	-
Reverse Voltage	$V_R$	7	V
Forward Power Dissipation	$P_F$	250	mW
Junction Temperature Range	$T_J$	-55 to +125	°C
Storage Temperature Range	$T_{STG}$	-55 to +150	°C

### THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	500	°C/W

**NOTE:**

1. FR-5 Board = 1.0X0.75X0.062 in.

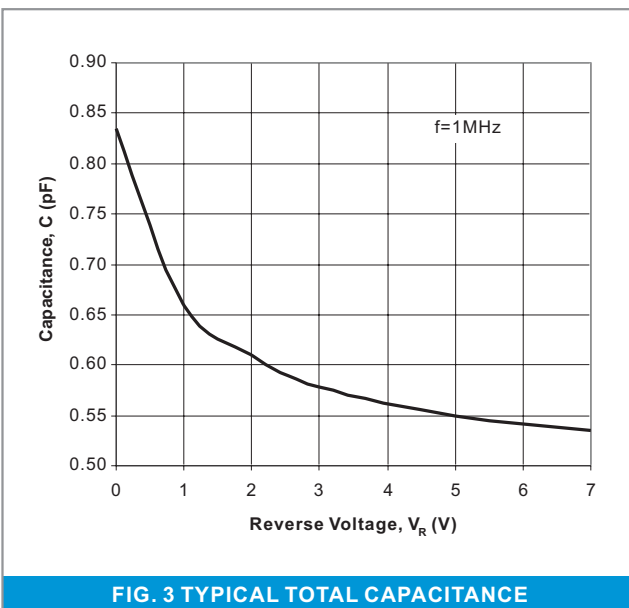
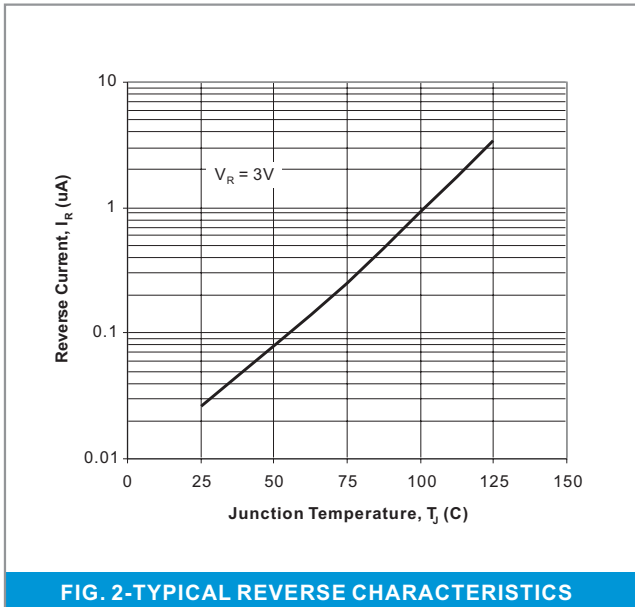
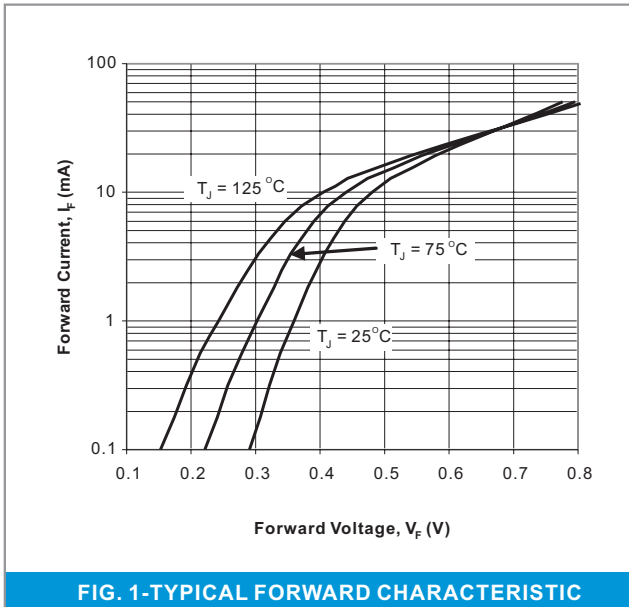


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## ELECTRICAL CHARACTERISTICS ( $T_J=25^\circ\text{C}$ unless otherwise noted)

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	7.0	10	-	V
Reverse Leakage Current	$I_R$	$V_R=3.0\text{V}$	-	-	0.25	$\mu\text{A}$
Forward Voltage	$V_F$	$I_F=10\text{mA}$	-	0.5	0.6	V
Total Capacitance	$C_J$	$f=1.0\text{MHz}$ , $V_R=0\text{V}$	-	0.88	1.0	pF

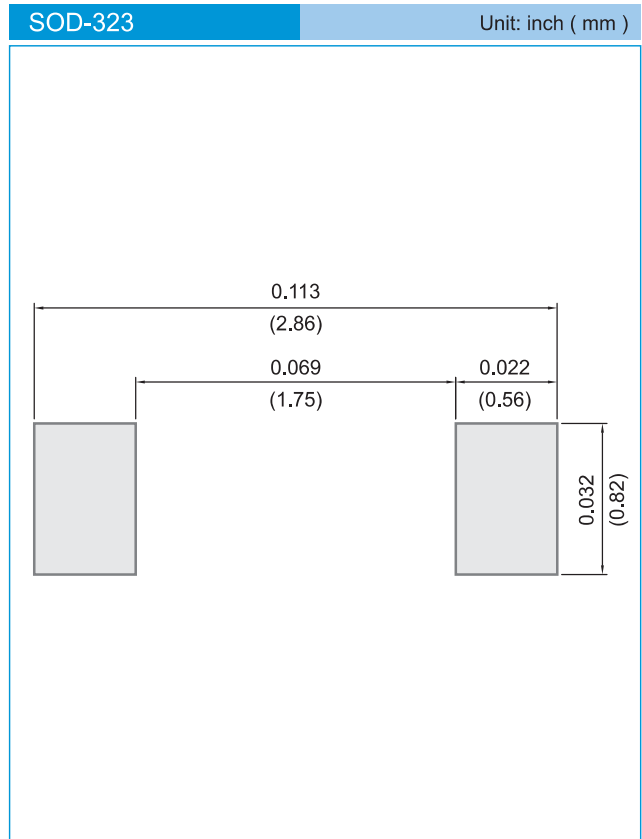
## ELECTRICAL CHARACTERISTICS CURVES





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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

## LEGAL STATEMENT

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