

MMBD101WS

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

VOLTAGE

7.0 Volts

POWER

250mWatts

SOD-323

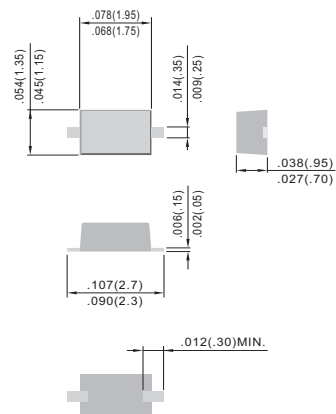
Unit: inch (mm)

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.

MMBD101WS

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	μA
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

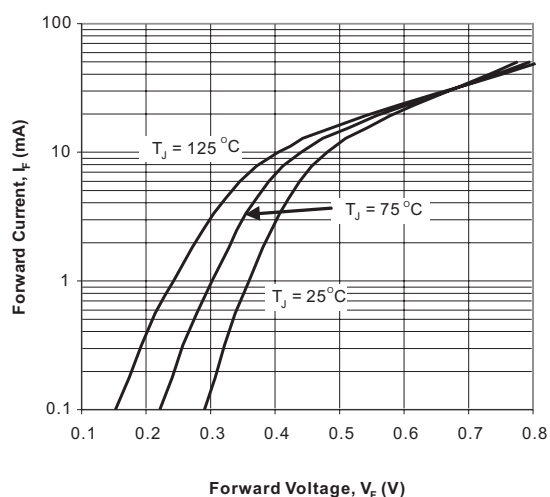


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

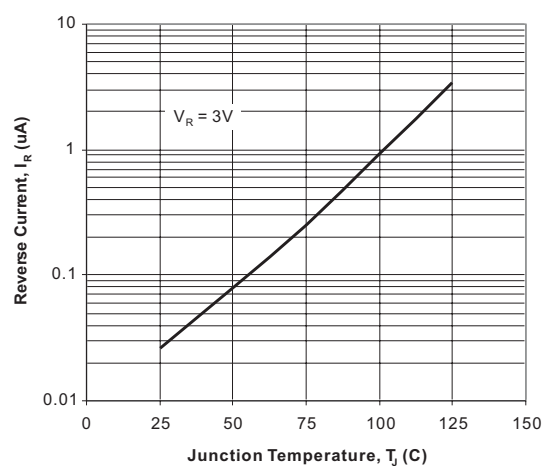


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

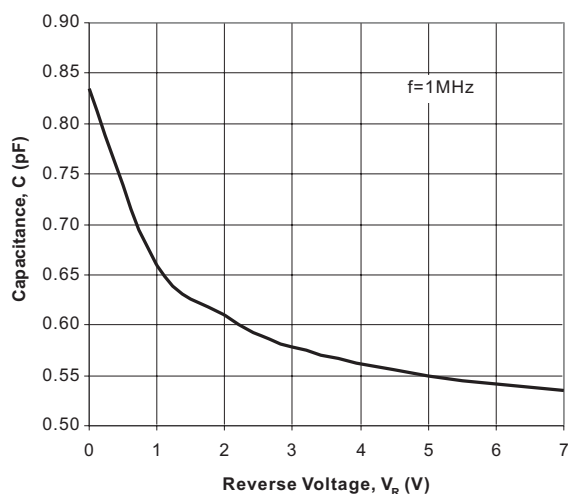
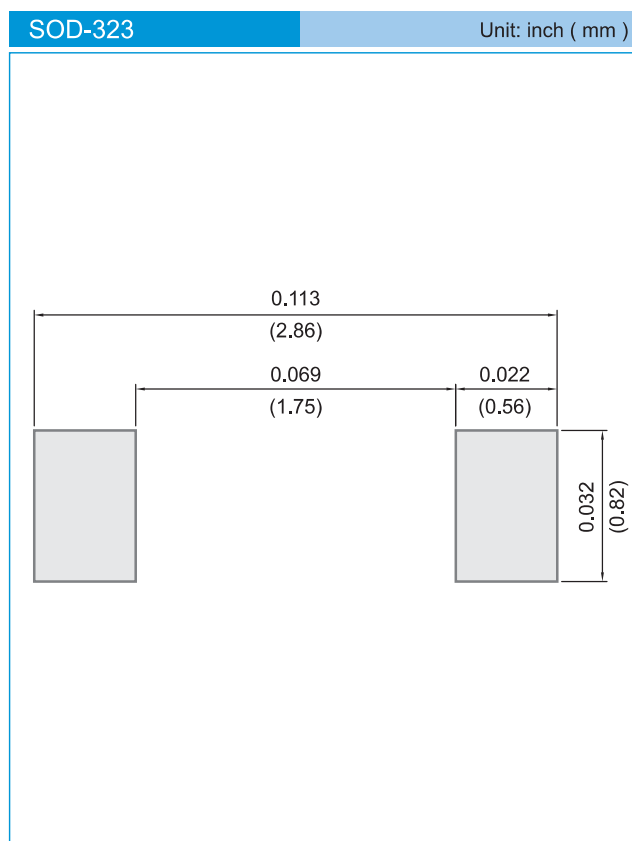


FIG. 3 TYPICAL TOTAL CAPACITANCE

MMBD101WS

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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