



MMBD101TS

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

VOLTAGE 7.0 Volt **POWER** 200mWatt

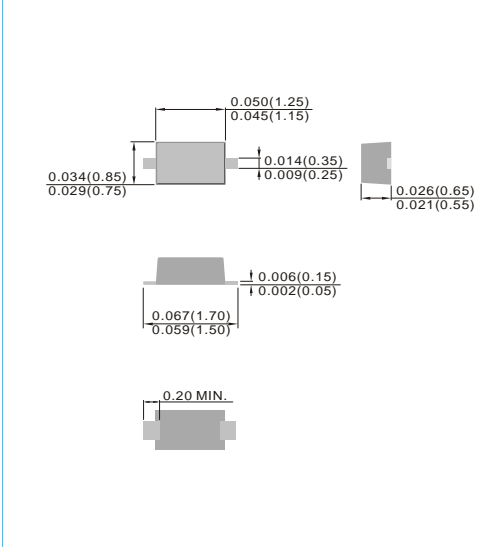
SOD-523 Unit : inch(mm)

FEATURES

- Low Capacitance, Minimizing Insertion Losses in VHF Applications
- Low Inductance, Small Lead-Length(SOD-523) Package
- Low V_F : 0.5V (Typ) at $I_F = 10\text{mA}$
- Extremely Fast Switching Speed
- Lead free in compliance with EU RoHS 2011/65/EU directive

MECHANICAL DATA

- Case: SOD-523 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Standard packaging: 8mm tape
- Approx Weight : 0.00005 ounces, 0.0014 grams



MAXIMUM RATINGS AND THERMAL CHARACTERISTICS

Parameter	Symbol	MMBD101TS	Units
Marking Code	-	10	-
Reverse Voltage	V_R	7	V
Forward Power Dissipation	P_F	200	mW
Thermal Resistance , Junction to Ambient (Note 1)	$R_{\theta JA}$	500	$^{\circ}\text{C}/\text{W}$
Junction Temperature Range	T_J	-55 to +125	$^{\circ}\text{C}$
Storage Temperature Range	T_{STG}	-55 to +150	$^{\circ}\text{C}$

NOTE:

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



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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	μA
Forward Voltage	V_F	$I_F=10\text{mA}$	-	-	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

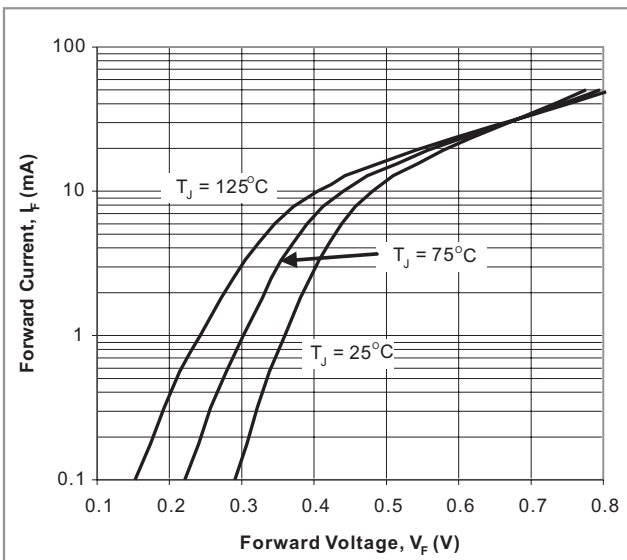


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

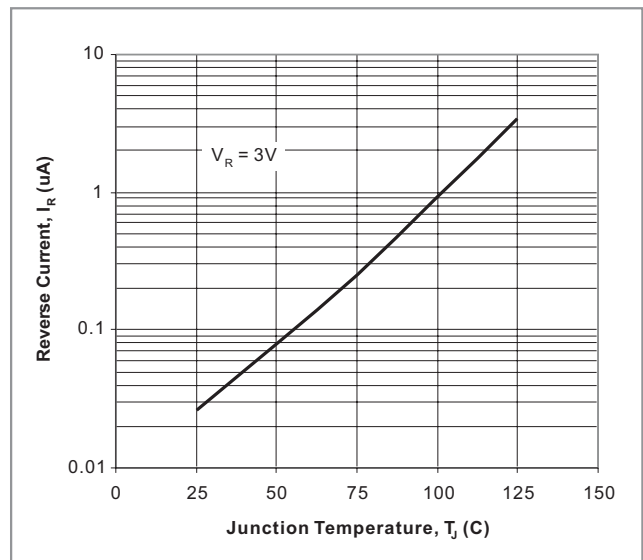


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

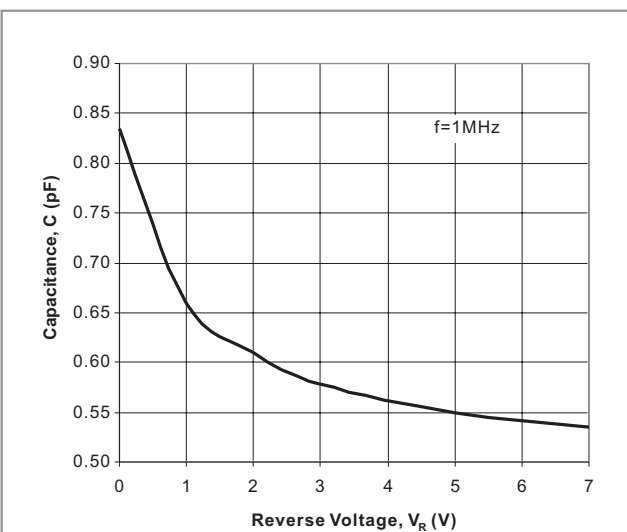
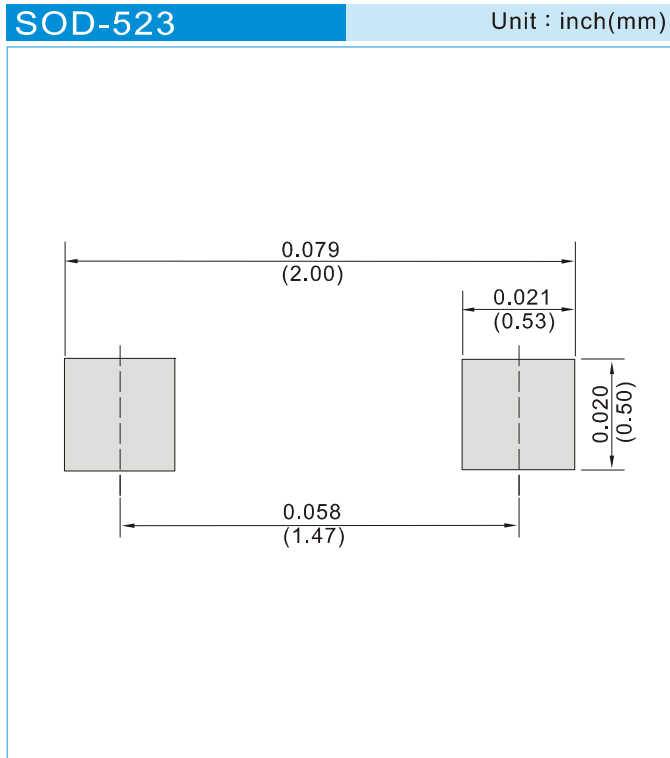


FIG. 3 TYPICAL TOTAL CAPACITANCE



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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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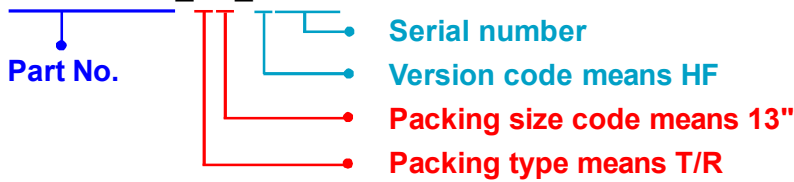
Part No_packing code_Version

MMBD101TS_R1_00001

MMBD101TS_R2_00001

For example :

RB500V-40_R2_00001



Packing Code XX				Version Code XXXXX		
Packing type	1 st Code	Packing size code	2 nd Code	HF or RoHS	1 st Code	2 nd ~5 th 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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