

MMBD101/MMBD352/MMBD353/MMBD354/MMBD355

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

VOLTAGE 7.0 Volts **POWER** 250mWatts

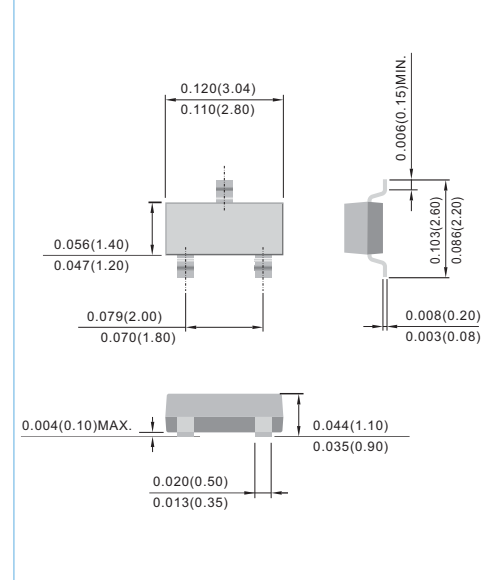
SOT-23 Unit : inch(mm)

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
 - Lead free in comply with EU RoHS 2002/95/EC directives.
- ÇGreen molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

- Case: SOT-23 plastic case.
- Terminals : Solderable per MIL-STD-750,Method 2026
- Weight: approximately 0.0003 ounces, 0.0084 grams



MAXIMUM RATINGS

Parameter	Symbol	MMBD101	MMBD352	MMBD353	MMBD354	MMBD355	Units
Marking Code	-	101	352	353	354	355	-
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
Circuit Figure	-	SINGLE	SERIES	SERIES (Rev)	COMMON CATHODE	COMMON ANODE	-

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Thermal Resistance , Junction to Ambient	$R_{\theta JA}$	400	°C/W

NOTE:

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

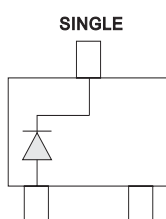


Fig.14

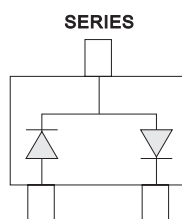


Fig.17

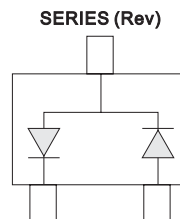


Fig.33

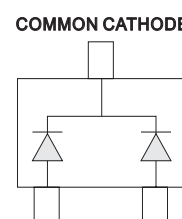


Fig.16

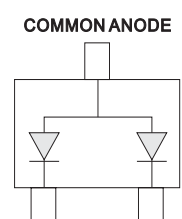


Fig.15

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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	$I_F=10\text{mA}$	-	0.5	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

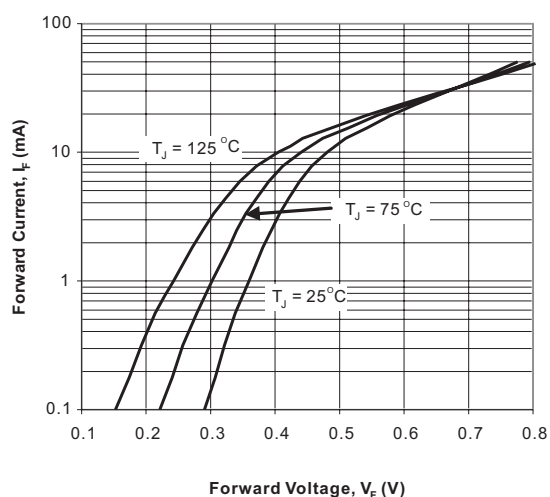


FIG. 1-TYPICAL FORWARD CHARACTERISTIC

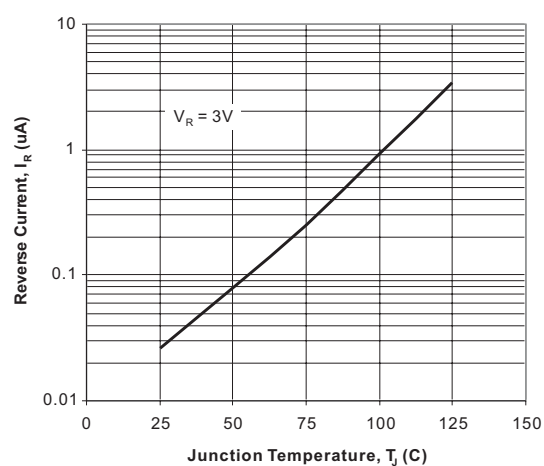


FIG. 2-TYPICAL REVERSE CHARACTERISTICS

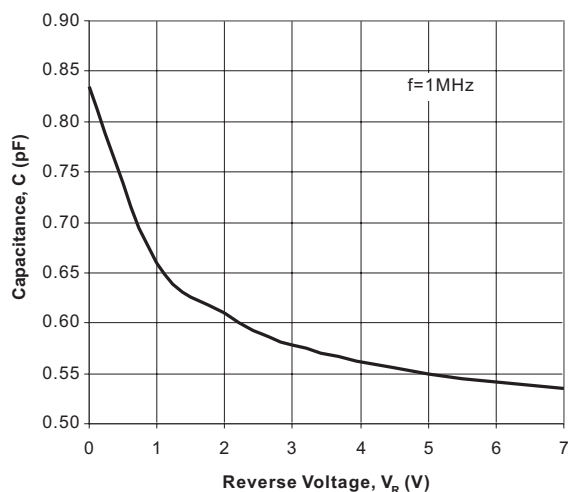


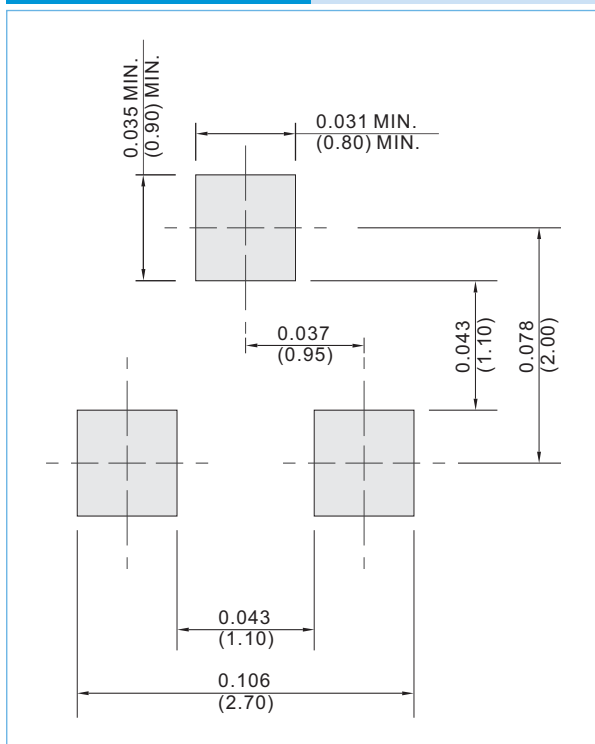
FIG. 3 TYPICAL TOTAL CAPACITANCE

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MOUNTING PAD LAYOUT

SOT-23

Unit : inch(mm)



ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

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