



MMBD101

SURFACE MOUNT HIGH FREQUENCY SCHOTTKY DIODE

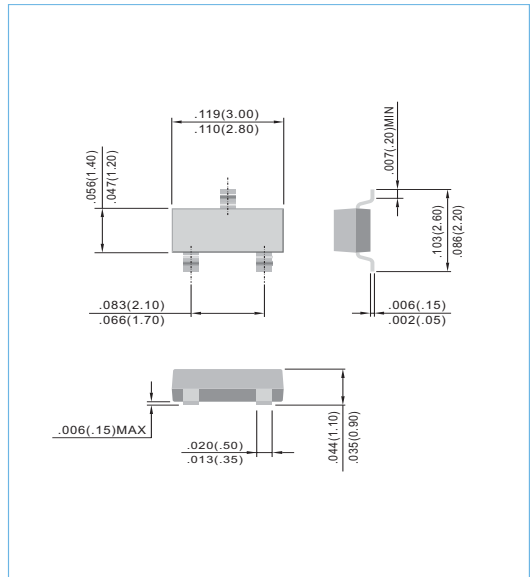
VOLTAGE 7.0 Volts **POWER** 250 mW **SOT-23** Unit: inch (mm)

FEATURES

- Low Capacitance, Minimizing Insertion Losses in VHF Applications
- Low V_F : 0.5V (Typ) at $I_F=10mA$
- Extremely Fast Switching Speed
- Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

MECHANICAL DATA

Case : SOT-23, Plastic
 Terminals : Solderable per MIL-STD-750, Method 2026
 Approx weight : 0.008 gram
 Marking : 101



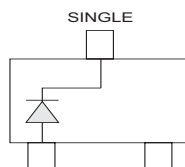
MAXIMUM RATINGS

PARAMETER	SYMBOL	VALUE	UNITS
Reverse Voltage	V_R	7	V
Forward Power Dissipation	P_F	250	mW
Junction Temperature Range	T_J	-55 to 125	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55 to 150	$^{\circ}C$

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNITS
Thermal Resistance , Junction to Ambient ⁽¹⁾	$R_{\theta JA}$	400	$^{\circ}C/W$

Note 1. FR-5 Board = 1.0 x 0.75 x 0.062 in



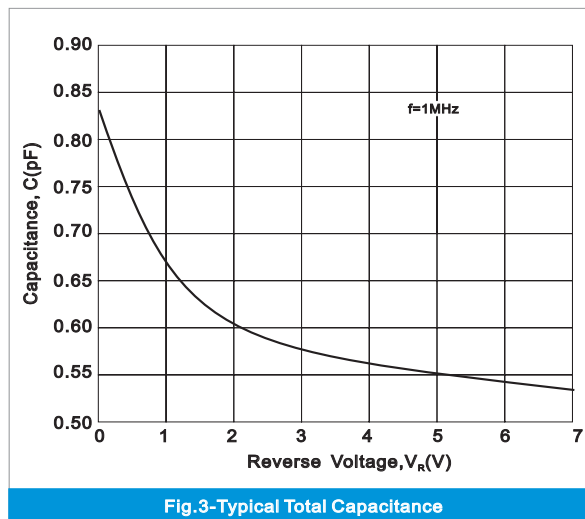
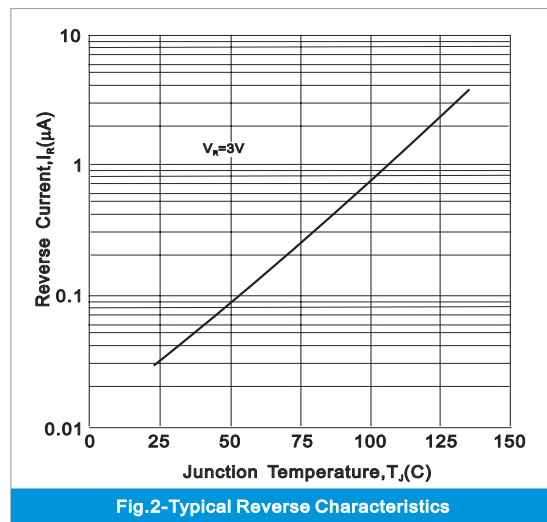
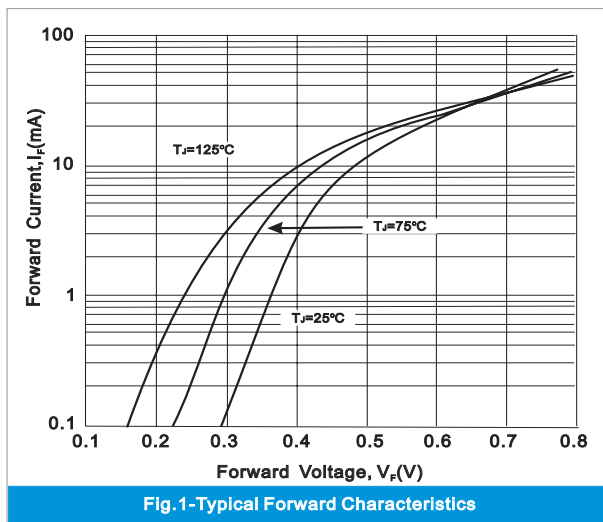


MMBD101

ELECTRICAL CHARACTERISTICS (T_J=25°C, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNITS
Reverse Breakdown Voltage	V _(BR)	I _R =10μA	7.0	10	-	V
Reverse Leakage Current	I _R	V _R =3.0V	-	-	0.25	μA
Forward Voltage	V _F	I _F =10mA	-	-	0.6	V
Total Capacitance	C _T	f=1.0MHz ; V _R =0V	-	0.88	1.0	pF

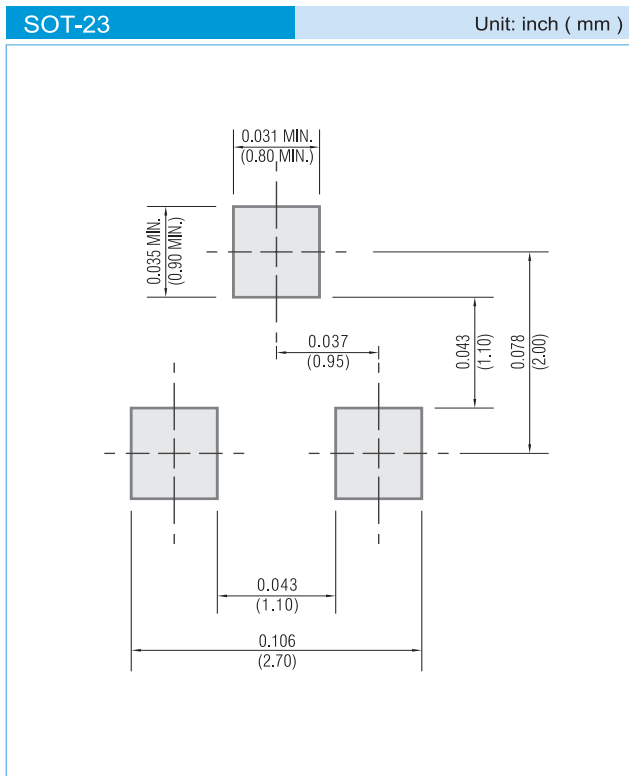
ELECTRICAL CHARACTERISTICS CURVE





MMBD101

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

Copyright PanJit International, Inc 2005

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.