MMBV3401

SURFACE MOUNT PIN DIODE

VOLTAGE 35 Volts **POWER** 200 mW

FEATURES

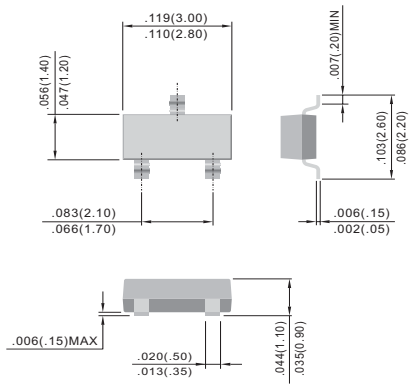
Very low series resistance at 100MHz (0.45 Ω typical@I_F=10mA)

Low capacitance (0.8pF typical@V_R=20V)

Surface mount package ideally suited for automatic insertion

Pb free product are available : 99% Sn above can meet RoHS environment substance directive request

SOT- 23 Unit: inch (mm)



MECHANICAL DATA

Case: SOT-23 plastic

Terminals : Solderable per MIL-STD-750,Method 2026

Approx Weight: 0.008 grams

Device Marking : V34

ABSOLUTE RATINGS

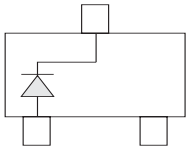
Parameter	Symbol	Value	Units
Maximum Reverse Voltage	V_R	35	V
Continuous Forward Current	I_F	0.2	A
Power Dissipation (Note 1)	P_{TOT}	200	mW
Junction and Storage Temperature Range	T_J, T_{STG}	-55 to 150	^{O}C

THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Thermal Resistance, Junction to Ambient (Note 1)	$R_{\Theta JA}$	625	^{O}C / W

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

SINGLE



MMBV3401

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

Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	I_R=10μA	35	-	-	V
Reverse Current	I_R	V_R=25V	-	-	100	nA
Series Resistance	R_S	I_F=10mA,f=100MHz	-	0.45	0.7	Ω
Total Capacitance	C_T	V_R=20V,f=1MHz	-	-	1.0	pF

ELECTRICAL CHARACTERISTICS CURVE

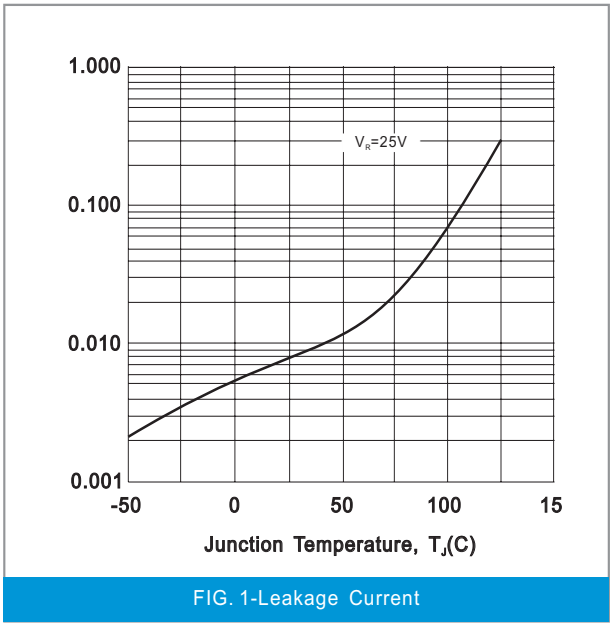


FIG. 1-Leakage Current

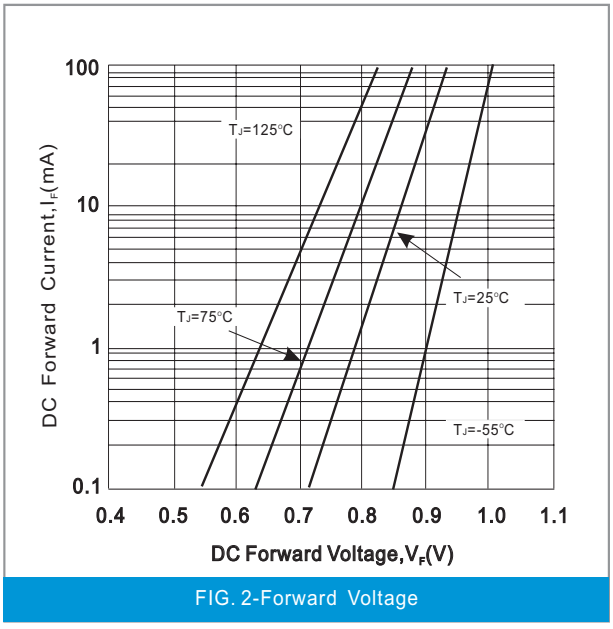


FIG. 2-Forward Voltage

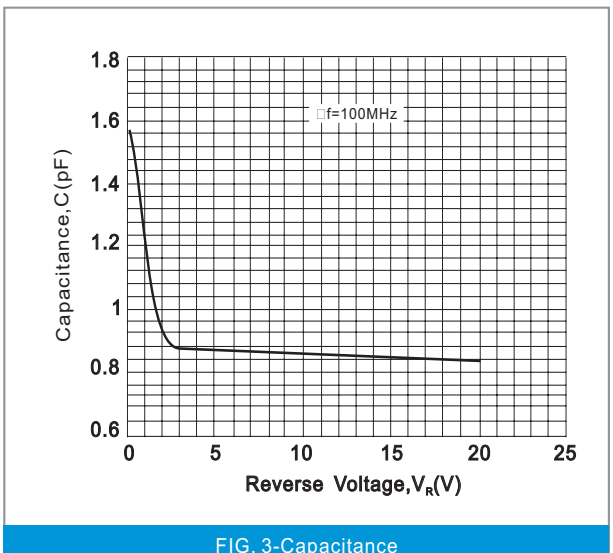


FIG. 3-Capacitance

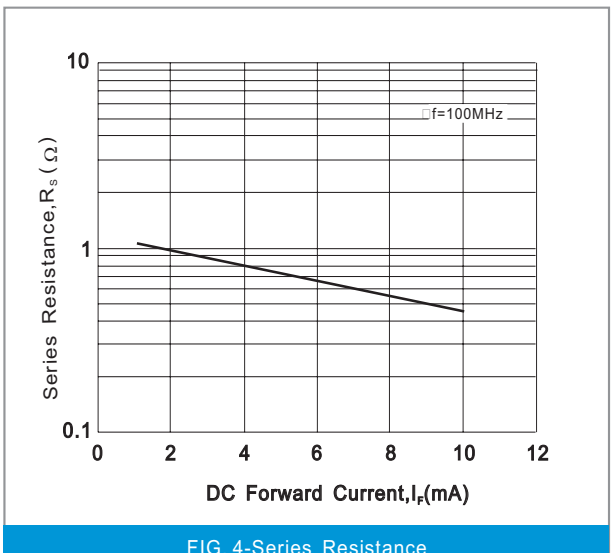
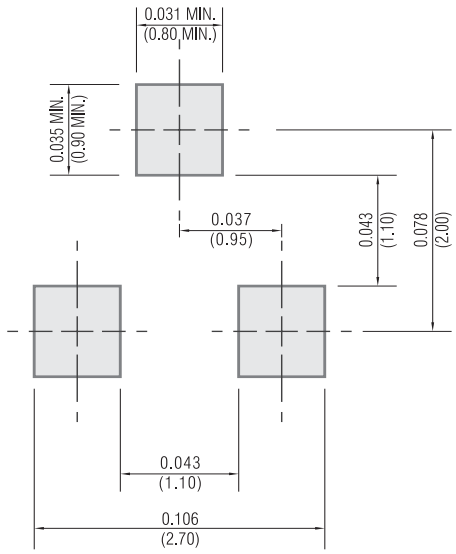


FIG. 4-Series Resistance

MMBV3401

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