

# MMBV3401

## SURFACE MOUNT PIN DIODE

**VOLTAGE** 35 Volts **POWER** 200 mW

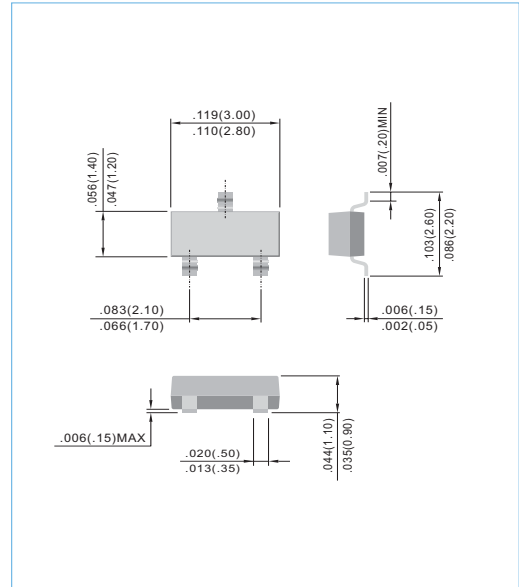
**SOT - 23** Unit: inch (mm)

### FEATURES

Very low series resistance at 100MHz (0.45  $\Omega$  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

### MECHANICAL DATA

Case: SOT-23 plastic  
 Terminals : Solderable per MIL-STD-750,Method 2026  
 Approx Weight: 0.008 grams  
 Device Marking : V34



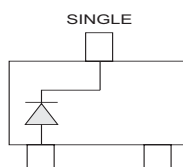
### ABSOLUTE RATINGS

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	$^{\circ}C$

### THERMAL CHARACTERISTICS

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

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

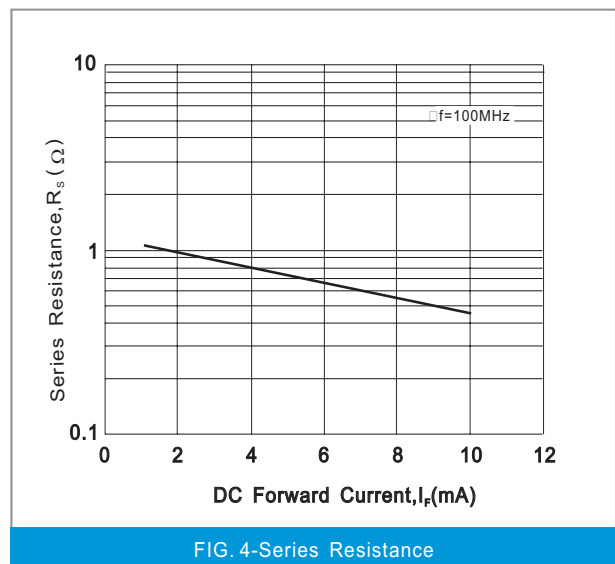
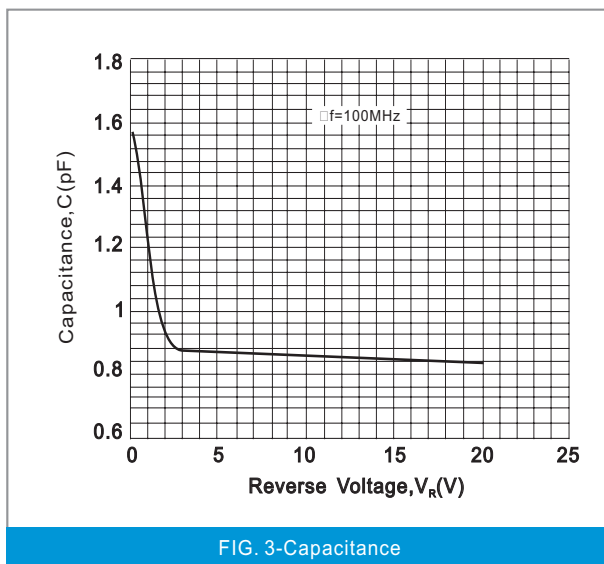
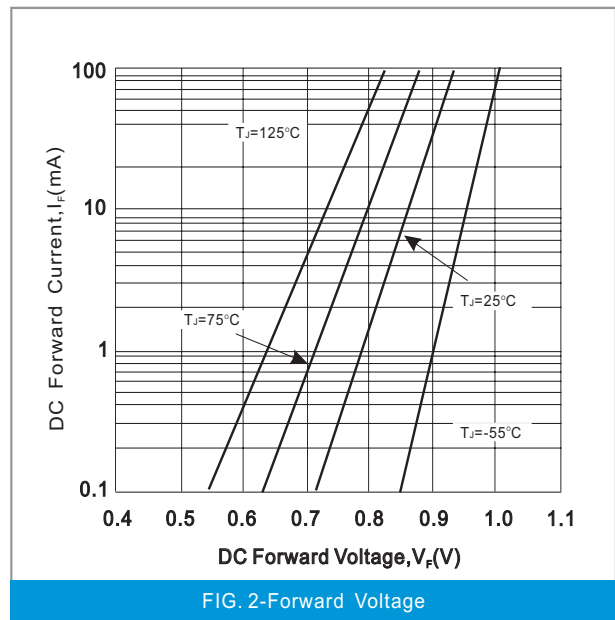
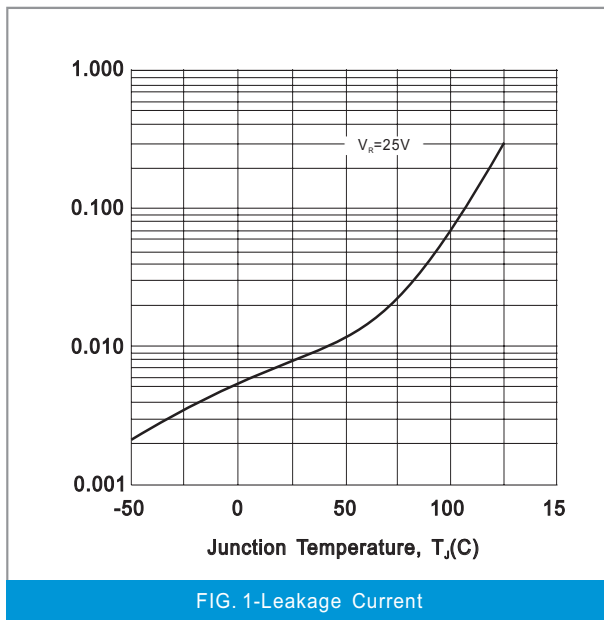


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## ELECTRICAL CHARACTERISTICS ( $T_A=25^{\circ}\text{C}$ , unless otherwise noted)

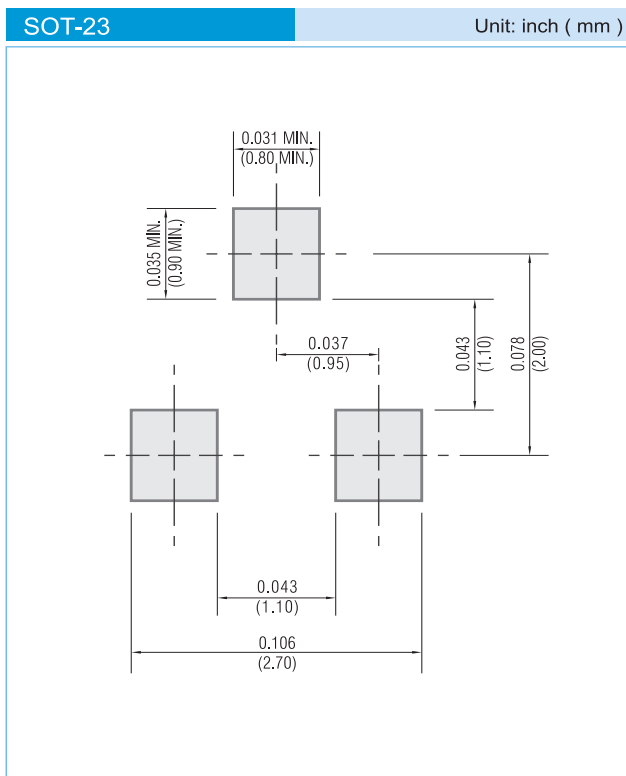
Parameter	Symbol	Test Condition	Min.	Typ.	Max.	Units
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	35	-	-	V
Reverse Current	$I_R$	$V_R=25\text{V}$	-	-	100	nA
Series Resistance	$R_S$	$I_F=10\text{mA}, f=100\text{MHz}$	-	0.45	0.7	$\Omega$
Total Capacitance	$C_T$	$V_R=20\text{V}, f=1\text{MHz}$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

## ELECTRICAL CHARACTERISTICS CURVE



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## MOUNTING PAD LAYOUT



## ORDER INFORMATION

- Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel

## LEGAL STATEMENT

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