



# MMBV3401

## SURFACE MOUNT PIN DIODE

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

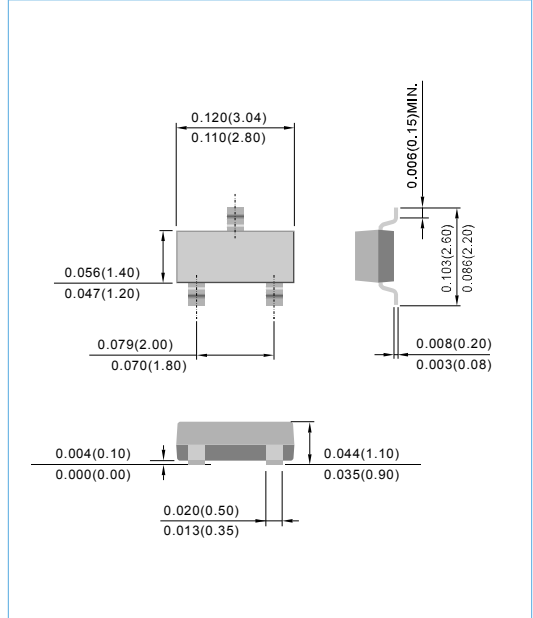
**SOT-23** Unit: inch ( mm )

### FEATURES

- Very low series resistance at 100MHz (0.45 Ω typical@I<sub>F</sub>=10mA)
- Low capacitance (0.8pF typical@V<sub>R</sub>=20V)
- Surface mount package ideally suited for automatic insertion

### MECHANICAL DATA

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



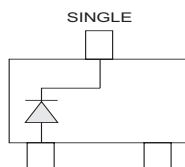
### ABSOLUTE RATINGS

Parameter	Symbol	Value	Units
Maximum Reverse Voltage	V <sub>R</sub>	35	V
Continuous Forward Current	I <sub>F</sub>	0.2	A
Power Dissipation (Note 1)	P <sub>TOT</sub>	200	mW
Junction and Storage Temperature Range	T <sub>J</sub> , T <sub>STG</sub>	-55 to 150	°C

### THERMAL CHARACTERISTICS

Parameter	Symbol	Value	Units
Thermal Resistance, Junction to Ambient (Note 1)	R <sub>θJA</sub>	625	°C / W

Note 1 : FR-4 Board 70 x 60 x 1mm.



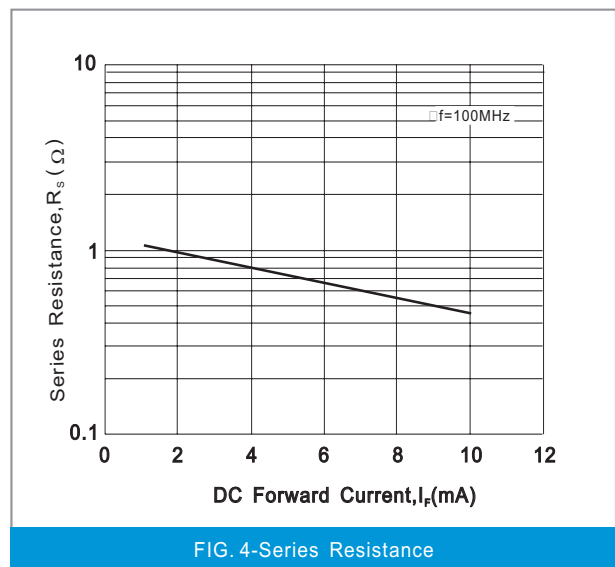
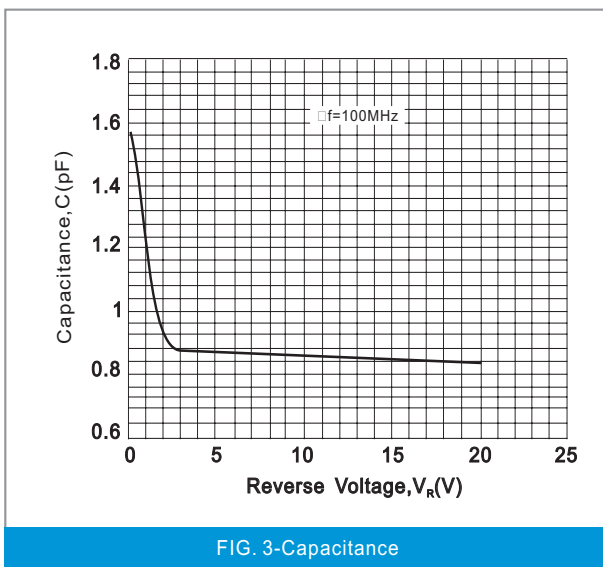
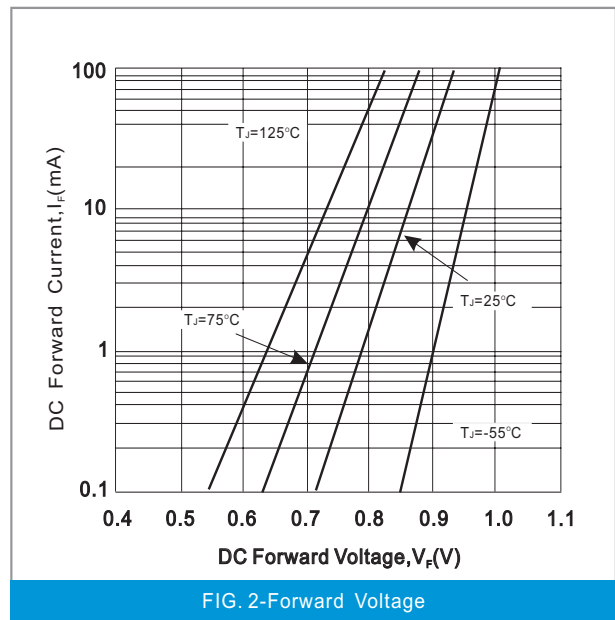
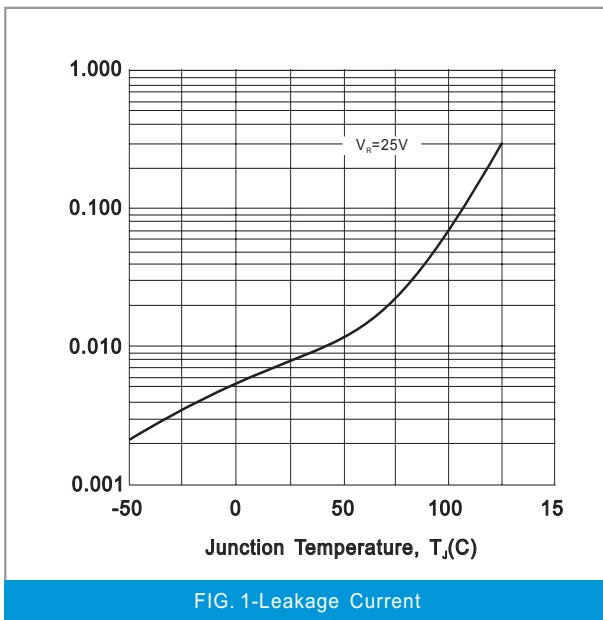


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## ELECTRICAL CHARACTERISTICS ( $T_A=25^\circ\text{C}$ , unless otherwise noted)

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

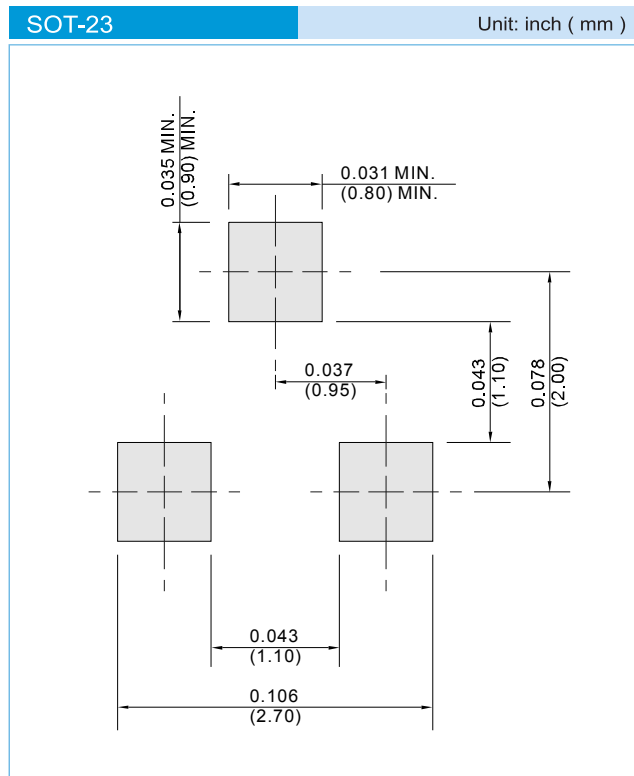
### ELECTRICAL CHARACTERISTICS CURVE





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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



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## Part No\_packing code\_Version

T T ÓXH €F\_R1\_00001

T T ÓXH €F\_R2\_00001

For example :

**RB500V-40\_R2\_00001**



Packing Code <b>XX</b>				Version Code <b>XXXXX</b>		
Packing type	1 <sup>st</sup> Code	Packing size code	2 <sup>nd</sup> Code	HF or RoHS	1 <sup>st</sup> Code	2 <sup>nd</sup> ~5 <sup>th</sup> Code
Tape and Ammunition Box (T/B)	<b>A</b>	N/A	<b>0</b>	<b>HF</b>	<b>0</b>	serial number
Tape and Reel (T/R)	<b>R</b>	7"	<b>1</b>	<b>RoHS</b>	<b>1</b>	serial number
Bulk Packing (B/P)	<b>B</b>	13"	<b>2</b>			
Tube Packing (T/P)	<b>T</b>	26mm	<b>X</b>			
Tape and Reel (Right Oriented) (TRR)	<b>S</b>	52mm	<b>Y</b>			
Tape and Reel (Left Oriented) (TRL)	<b>L</b>	PANASERT T/B CATHODE UP (PBCU)	<b>U</b>			
FORMING	<b>F</b>	PANASERT T/B CATHODE DOWN (PBCD)	<b>D</b>			



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