



SURFACE MOUNT PIN DIODE

VOLTAGE 200 Volt POWER 200 mW

FEATURES

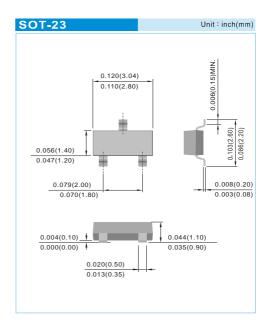
- High reverse breakdown voltage (200V min)
- Very low series resistance at 100MHz (0.7Ω typical@ I_E=10mA)
- Long minority carrier lifetime (Trr=300ns typical)
- Low capacitance (0.5 pF typical @V_R=20V)
- Surface mount package ideally suited for autmatic insertion
- Lead free in compliance with EU RoHS 2011/65/EU directive
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOT-23, Plastic

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

Approx. Weight: 0.0003 ounces, 0.0084 grams



ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	V_R	200	V
Continuous Forward Current	I _F	0.2	А

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation (1)	P _{TOT}	200	mW
Thermal Resistance, Junction to Ambient (1)	$R_{\scriptscriptstyle{\ThetaJA}}$	625	°C/W
Junction Temperature	T _J	-55 to 150	°C
Storage Temperature	T _{stg}	-55 to 150	°C

Note 1. FR-5 Board=1x0.75x0.062 in.



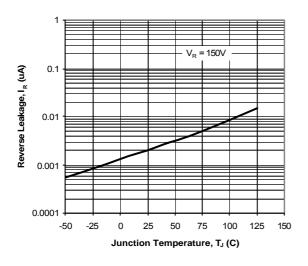




ELECTRICAL CHARACTERISTICS (T_=25°C, unless otherwise noted)

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage	$V_{(BR)}$	I _R =10μA	200	ı	-	>
Reverse Current	I _R	V _R =150V	-	-	100	nA
Series Resistance	R_s	I _F =10mA,f=100MHz	-	0.7	1.0	Ω
Total Capacitance	C _T	V _R =20V,f=1MHz	-	0.7	1.0	pF
Reverse Recovery Time	t _{rr}	I _F =I _R =10mA	-	300	-	ns

CHARACTERISTIC CURVES



1000 T_J = 125 °C T_J = 25 °C T_J = 55 °C 100 T_J = 75 °C T_J = 55 °C T_J = 55 °C T_J = 55 °C T_J = 55 °C

Figure 1. Leakage Current

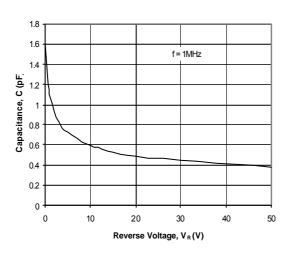


Figure 2. Forward Voltage

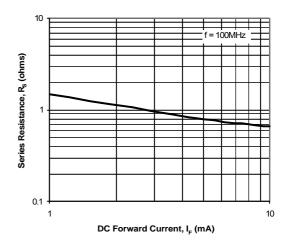


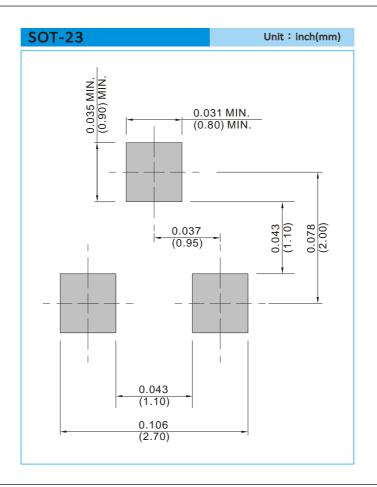
Figure 3. Capacitance

Figure 4. Series Resistance





MOUNTING PAD LAYOUT



ORDER INFORMATION

• Packing information

T/R - 12K per 13" plastic Reel

T/R - 3K per 7" plastic Reel





Part No_packing code_Version

MMBV3700_R1_00001 MMBV3700_R2_00001

For example:



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





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