



MMVL3700

SURFACE MOUNT PIN DIODE

VOLTAGE 200 Volts

POWER 200 mW

SOD-323

Unit : inch(mm)

FEATURES

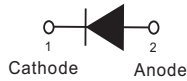
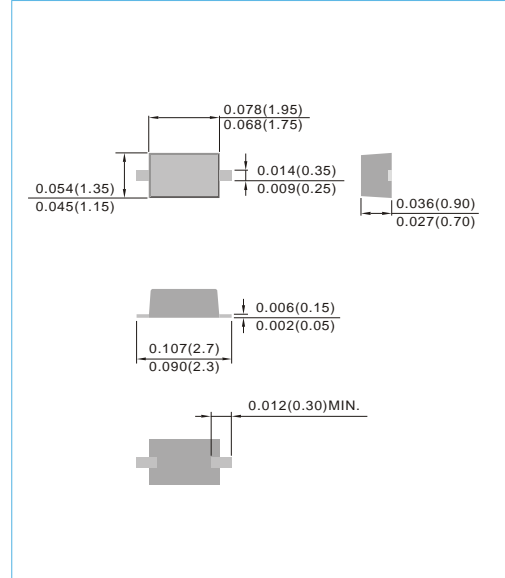
- High reverse breakdown voltage (200V min)
- Very low series resistance at 100MHz (0.7Ω typical @ $I_F=10\text{mA}$)
- Long minority carrier lifetime ($T_{rr}=300\text{ns}$ typical)
- Low capacitance (0.5 pF typical @ $V_R=20\text{V}$)
- Surface mount package ideally suited for automatic insertion
- Lead free in comply with EU RoHS 2011/65/EU directives
- Green molding compound as per IEC61249 Std. . (Halogen Free)

MECHANICAL DATA

Case: SOD-323, Plastic

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

Approx. Weight: 0.0041 gram



ABSOLUTE RATINGS

PARAMETER	SYMBOL	VALUE	UNIT
Maximum Reverse Voltage	V_R	200	V
Continuous Forward Current	I_F	0.2	A

THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	VALUE	UNIT
Power Dissipation (1)	P_{TOT}	200	mW
Thermal Resistance, Junction to Ambient (1)	$R_{\theta JA}$	625	°C/W
Junction Temperature	T_J	-55 to 150	°C
Storage Temperature	T_{STG}	-55 to 150	°C

Note 1. FR-5 Board=1.0x0.75x0.062 in.



MMVL3700

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

PARAMETER	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Reverse Breakdown Voltage	$V_{(BR)}$	$I_R=10\mu\text{A}$	200	-	-	V
Reverse Current	I_R	$V_R=150\text{V}$	-	-	100	nA
Series Resistance	R_S	$I_F=10\text{mA}, f=100\text{MHz}$	-	0.7	1.0	Ω
Total Capacitance	C_T	$V_R=20\text{V}, f=1\text{MHz}$	-	0.7	1.0	pF
Reverse Recovery Time	t_{rr}	$I_F=I_R=10\text{mA}$	-	300	-	ns

CHARACTERISTIC CURVES

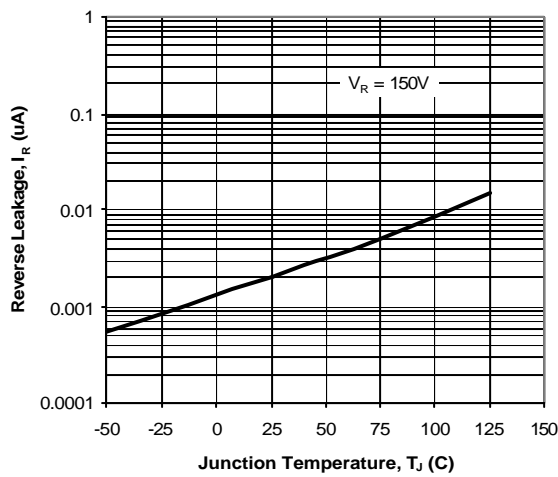


Figure 1. Leakage Current

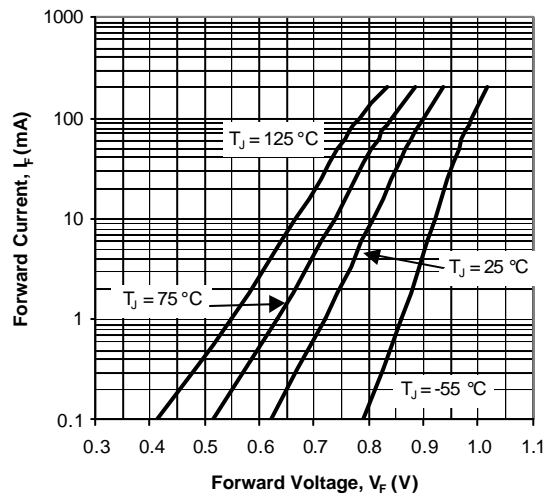


Figure 2. Forward Voltage

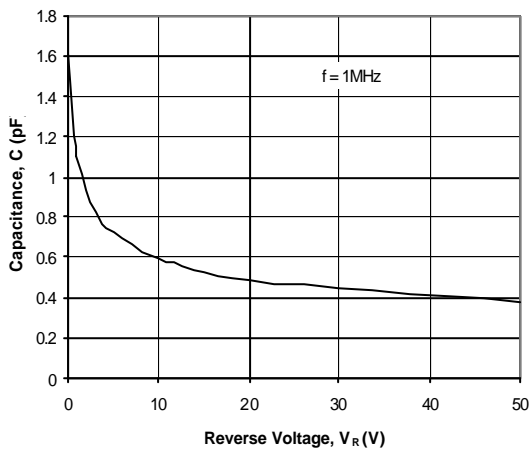


Figure 3. Capacitance

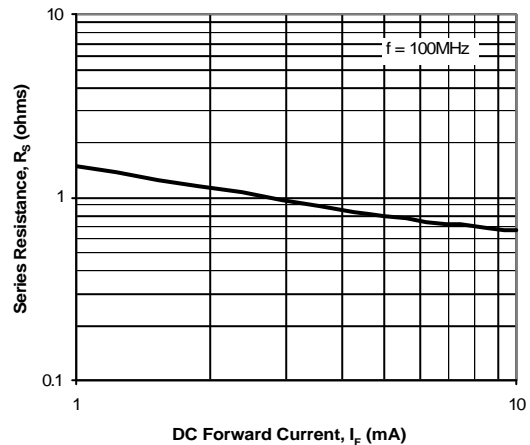


Figure 4. Series Resistance

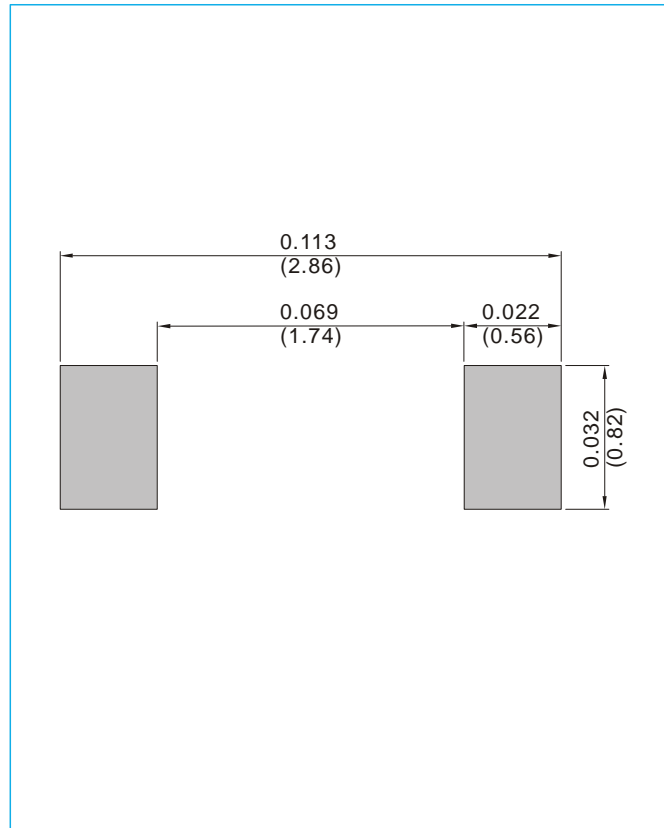


MMVL3700

MOUNTING PAD LAYOUT

SOD-323

Unit : inch(mm)



ORDER INFORMATION

- Packing information
 - T/R - 12K per 13" plastic Reel
 - T/R - 5K per 7" plastic Reel



MMVL3700

Part No_packing code_Version

MMVL3700_R1_00001

MMVL3700_R2_00001

For example :

RB500V-40_R2_00001



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)	A	N/A	0	HF	0	serial number
Tape and Reel (T/R)	R	7"	1	RoHS	1	serial number
Bulk Packing (B/P)	B	13"	2			
Tube Packing (T/P)	T	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			



MMVL3700

Disclaimer

- Reproducing and modifying information of the document is prohibited without permission from Panjit International Inc..
- Panjit International Inc. reserves the rights to make changes of the content herein the document anytime without notification. Please refer to our website for the latest document.
- Panjit International Inc. disclaims any and all liability arising out of the application or use of any product including damages incidentally and consequentially occurred.
- Panjit International Inc. does not assume any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.
- Applications shown on the herein document are examples of standard use and operation. Customers are responsible in comprehending the suitable use in particular applications. Panjit International Inc. makes no representation or warranty that such applications will be suitable for the specified use without further testing or modification.
- The products shown herein are not designed and authorized for equipments requiring high level of reliability or relating to human life and for any applications concerning life-saving or life-sustaining, such as medical instruments, transportation equipment, aerospace machinery et cetera. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Panjit International Inc. for any damages resulting from such improper use or sale.
- Since Panjit uses lot number as the tracking base, please provide the lot number for tracking when complaining.