



MMSZ4691WS SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 6.2 ~ 15 Volts POWER 200 mWatts

SOD-323

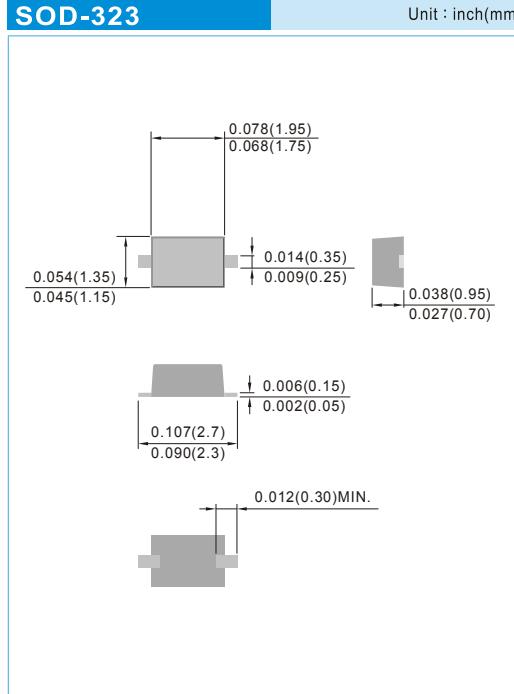
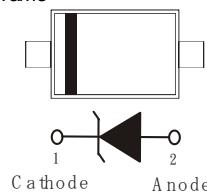
Unit : inch(mm)

FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Ideally Suited for Automated Assembly Processes
- Lead free in comply with EU RoHS 2002/95/EC directives.
- Green molding compound as per IEC61249 Std. (Halogen Free)

MECHANICAL DATA

- Case: SOD-323, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026
- Polarity: Color band denotes cathode end
- Approx. Weight: 0.00014 ounces, 0.0041 grams



MAXIMUM RATINGS AND ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

Parameter	Symbol	Value	Units
Maximum Power Dissipation (Note 1)	P _D	200	mW
Typical Thermal Resistance , Junction to Ambient (Note 1) Junction to Case (Note 1)	R _{θJA} R _{θJC}	625 400	°C/W
Operating Junction Temperature and Storage Temperature Range	T _j , T _{STG}	-55 to +150	°C

Part Number	Nominal Zener Voltage			Max. Zener Impedance	Max Reverse Leakage Current		Marking Code	
	V _Z @ I _{ZT}				I _R @ V _R			
	Nom. V	Min. V	Max. V	mA	μA	V		
MMSZ4691WS	6.2	5.89	6.51	0.05	10	5	CA	
MMSZ4692WS	6.8	6.46	7.14	0.05	10	5.1	CX	
MMSZ4702WS	15	14.25	15.75	0.05	0.05	11.4	DM	

NOTES:

1. Mounted on 48cm² FR-4 PCB Board.



MMSZ4691WS SERIES

RATING AND CHARACTERISTIC CURVES

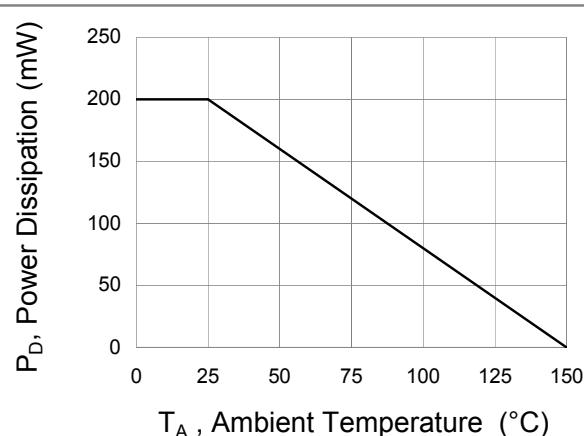


Fig.1 Power Derating Curve

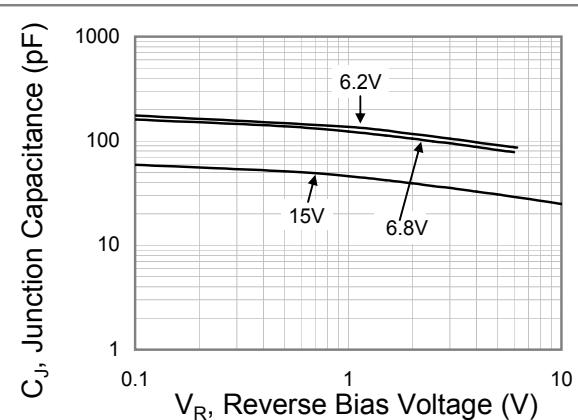


Fig.2 Typical Junction Capacitance

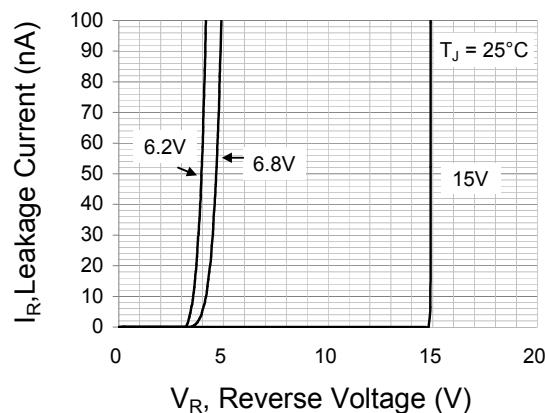


Fig.3 Typical Leakage Characteristics

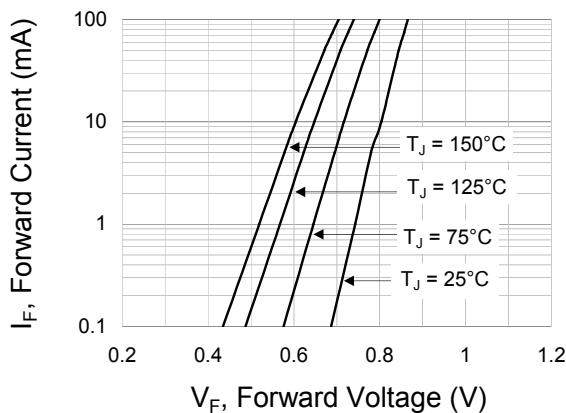


Fig.4 Typical Forward Characteristics

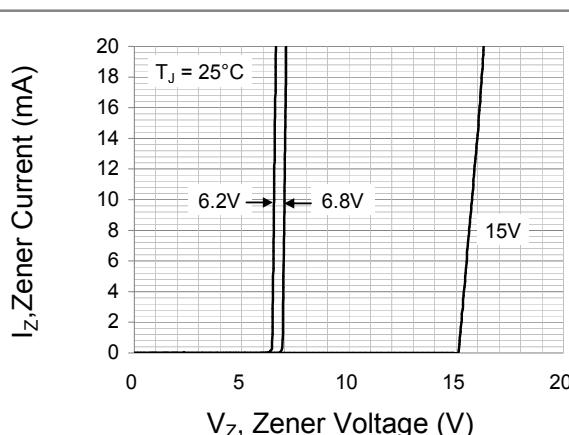


Fig.5 Typical Zener Characteristics

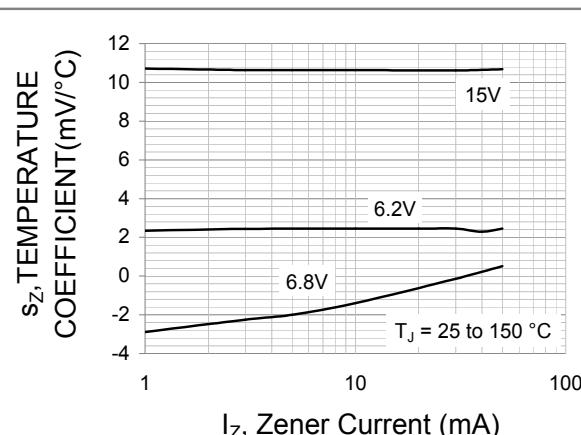


Fig.6 Temperature coefficient as a function of working current; typical values



MMSZ4691WS SERIES

RATING AND CHARACTERISTIC CURVES

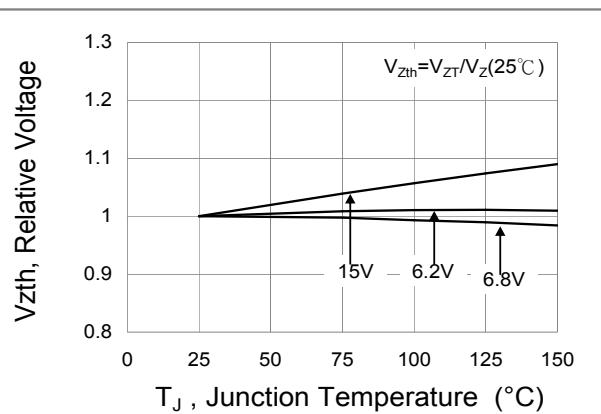
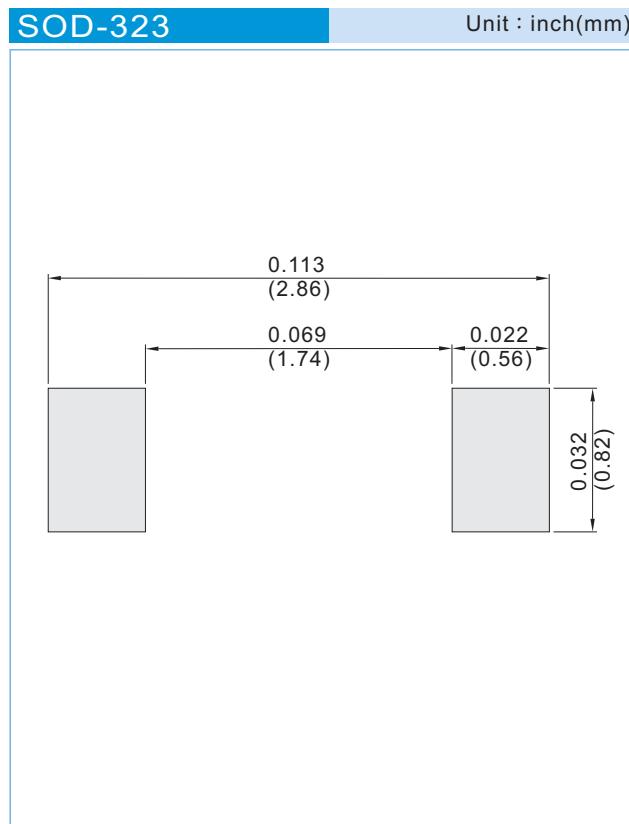


Fig.10 Junction temperature of working voltage vs junction temperature



MMSZ4691WS SERIES

MOUNTING PAD LAYOUT



ORDER INFORMATION

- Packing information
T/R - 10K per 13" plastic Reel
T/R - 3K per 7" plastic Reel

LEGAL STATEMENT

Copyright PanJit International, Inc 2012

The information presented in this document is believed to be accurate and reliable. The specifications and information herein are subject to change without notice. Pan Jit makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose. Pan Jit products are not authorized for use in life support devices or systems. Pan Jit does not convey any license under its patent rights or rights of others.



MMSZ4691WS SERIES

Part No_packing code_Version

MMSZ4691WS_R1_00001

MMSZ4691WS_R2_00001

For example :

RB500V-40_R2_00001

Part No. Serial number
Version code means HF
Packing size code means 13"
Packing type means T/R

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
T/B	A	N/A	0	HF	0	serial number
T/R	R	7"	1	RoHS	1	serial number
B/P	B	13"	2			
T/P	T	26mm	X			
TRR	S	52mm	Y			
TRL	L	PBCU	U			
FORMING	F	PBCD	D			



MMSZ4691WS SERIES

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.