



MMSZ4691WS-AU SERIES

SURFACE MOUNT SILICON ZENER DIODES

VOLTAGE 6.2 ~ 15 Volt **POWER** 200 mWatt

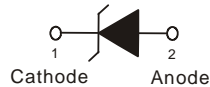
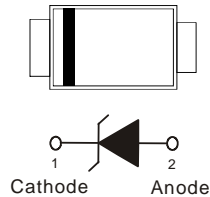
SOD-323 Unit : inch(mm)

FEATURES

- Planar Die construction
- 200mW Power Dissipation
- Ultra Thin Profile Package for Space Constrained Utilization
- Package Suitable For Automated Handling
- Ideally Suited for Automated Assembly Processes
- Acquire quality system certificate : TS16949
- AEC-Q101 qualified
- Lead free in compliance with EU RoHS 2011/65/EU directive
- 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)	$R_{\theta JA}$ $R_{\theta JL}$	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_{ZT}	$I_R @ V_R$	
	Nom. V	Min. V	Max. V	mA		μA	
MMSZ4691WS-AU	6.2	5.89	6.51	0.05	10	5	CA
MMSZ4692WS-AU	6.8	6.46	7.14	0.05	10	5.1	CX
MMSZ4702WS-AU	15	14.25	15.75	0.05	0.05	11.4	DM

NOTES:

1. Mounted on 48cm² FR-4 PCB Board.



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RATING AND CHARACTERISTIC CURVES

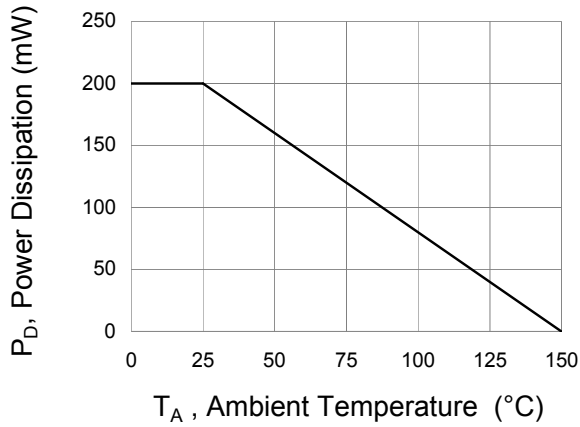


Fig.1 Power Derating Curve

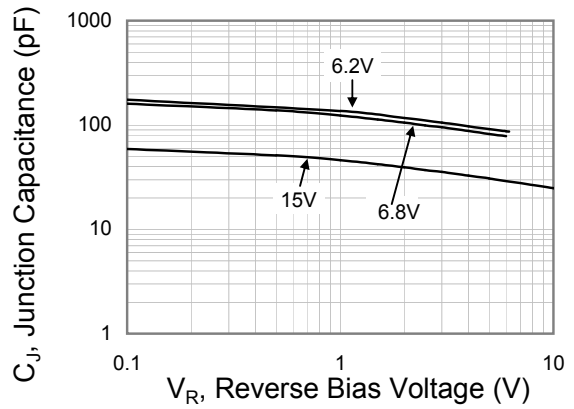


Fig.2 Typical Junction Capacitance

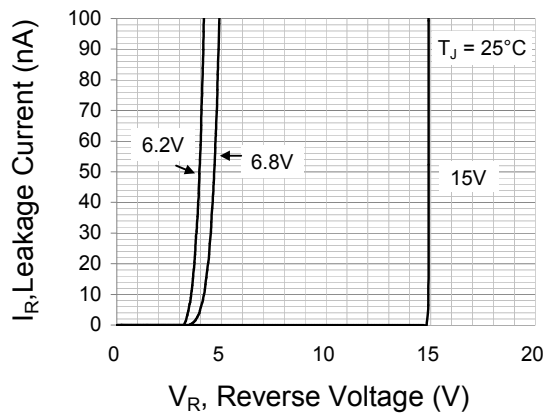


Fig.3 Typical Leakage Characteristics

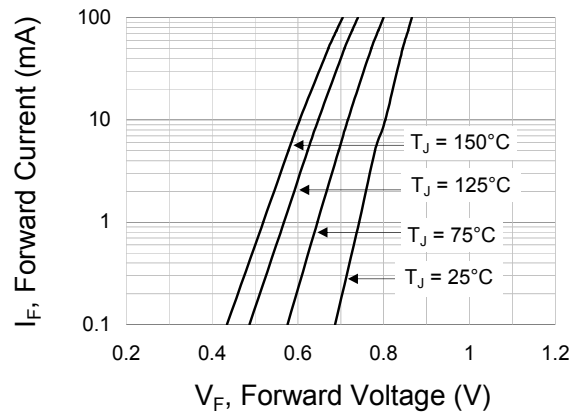


Fig.4 Typical Forward Characteristics

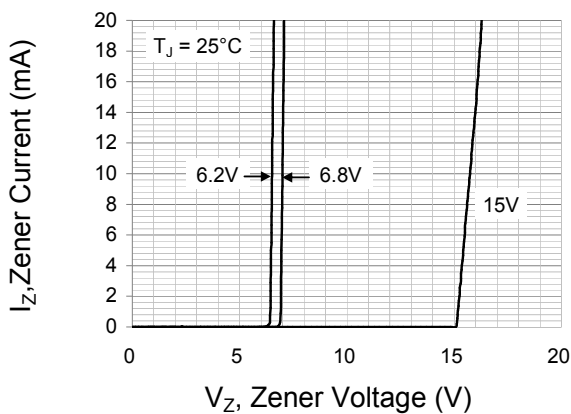


Fig.5 Typical Zener Characteristics

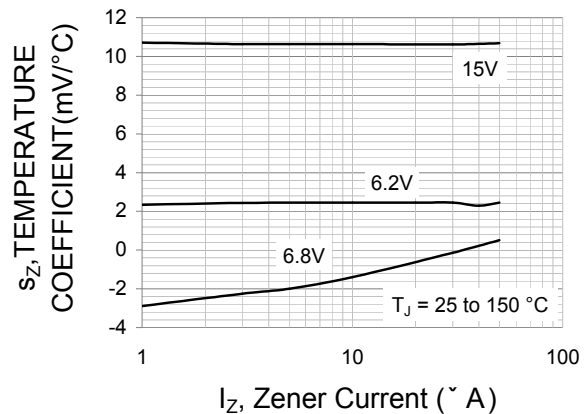


Fig.6 Temperature coefficient as a function of working current; typical values



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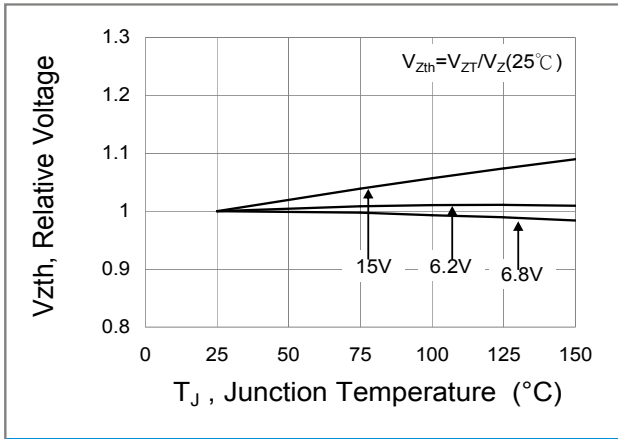
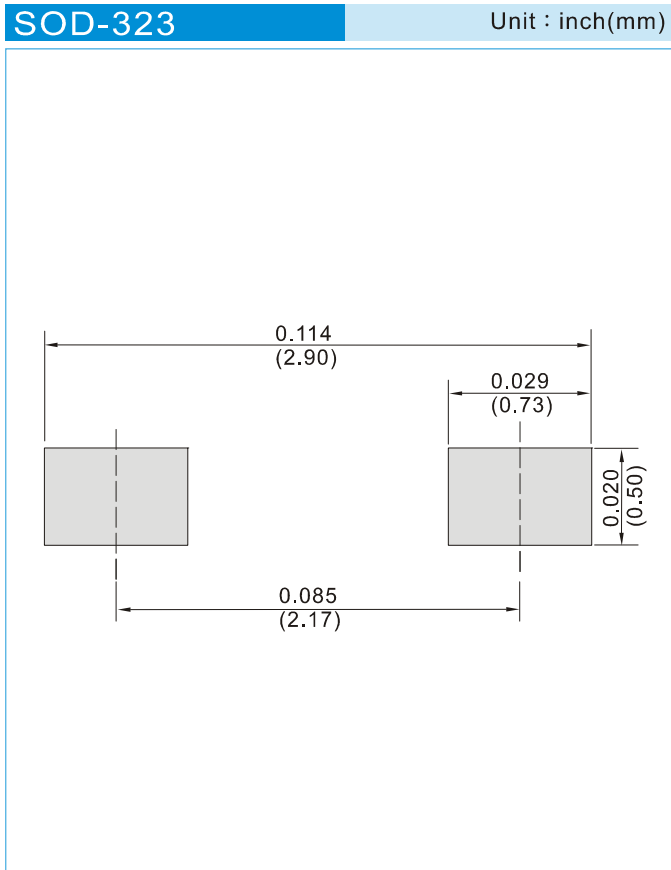


Fig.10 Junction temperature of working voltage vs junction temperature



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MOUNTING PAD LAYOUT



ORDER INFORMATION

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



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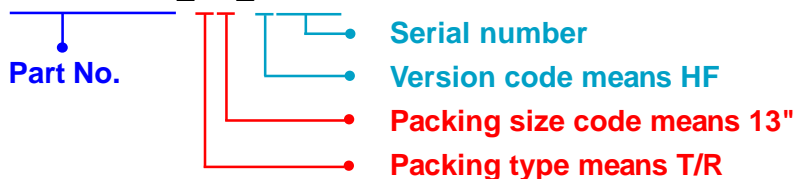
Part No_packing code_Version

MMSZ4691WS-AU_R1_000A1

MMSZ4691WS-AU_R2_000A1

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			



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