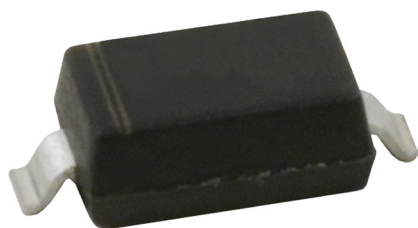


Surface Mount Zener Diode



SOD-123

Features:

- Planar Die Construction
- 500mW Power Dissipation
- Wide Zener Reverse Voltage Range
- Ideally Suited for Automated Assembly Processes

Applications:

- Zener Diode
- Ultra-Small Surface Mount Package

Maximum Ratings:

Ratings at 25°C unless otherwise specified.

Parameter	Symbol	Value	Unit
Forward Voltage at $I_F=10\text{mA}$	V_F	0.95	V
Power dissipation	P_d	500	mW
Thermal resistance, junction to ambient air	$R_{\theta JA}$	340	°C/W
Junction temperature	T_j	150	°C
Storage temperature	T_{STG}	-55 to +150	°C

Electrical Characteristics:

Ratings at 25°C unless otherwise specified

Part Number	Device Marking	Zener Voltage				Leakage Current	
		$V_Z(V)$			@ I_{ZT}	$I_R@V_R$	
		Min.	Nom.	Max.	μA	μA	V
MMSZ4702-TR	DM	14.25	15	15.75	50	0.05	11.4
MMSZ4711-TR	EA	25.65	27	28.35	50	0.01	20.4

Surface Mount Zener Diode

Typical Characteristics:

$T_A = 25^\circ\text{C}$ unless otherwise specified

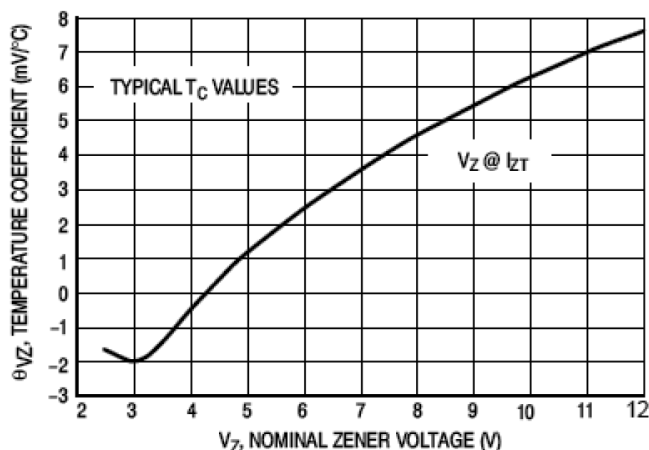


Figure 1. Temperature Coefficients
(Temperature Range -55°C to $+150^\circ\text{C}$)

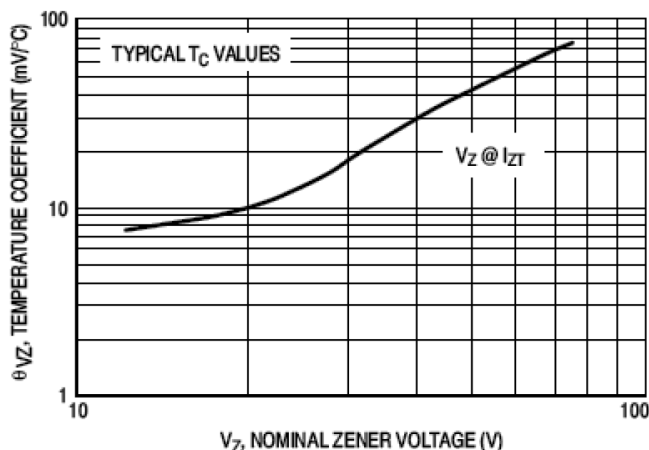


Figure 2. Temperature Coefficients
(Temperature Range -55°C to $+150^\circ\text{C}$)

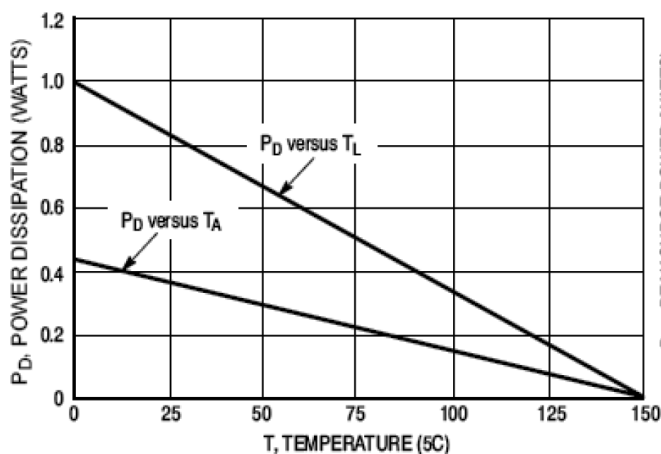


Figure 3. Steady State Power Derating

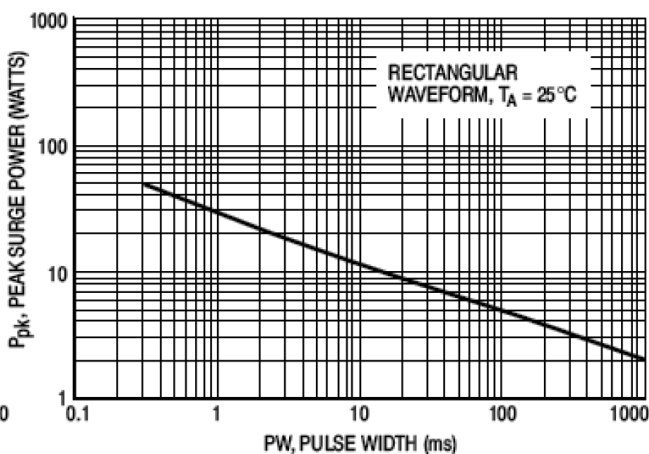


Figure 4. Maximum Nonrepetitive Surge Power

Surface Mount Zener Diode

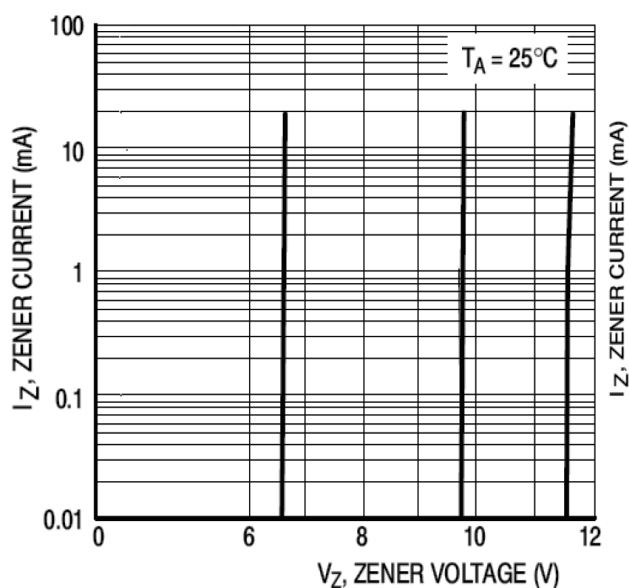


Figure 5. Zener Voltage versus Zener Current
(V_Z Up to 12 V)

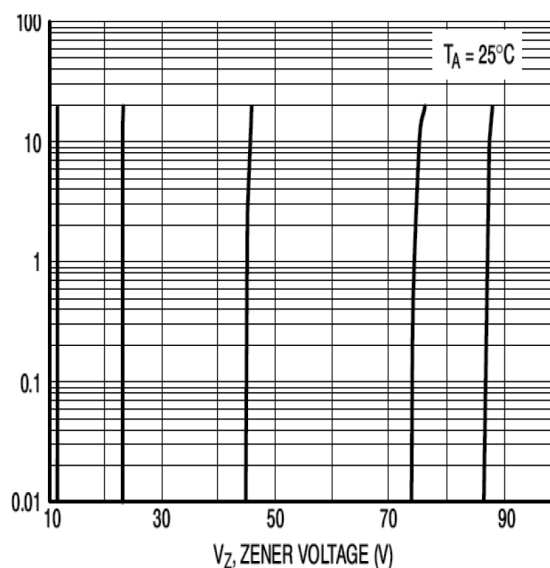
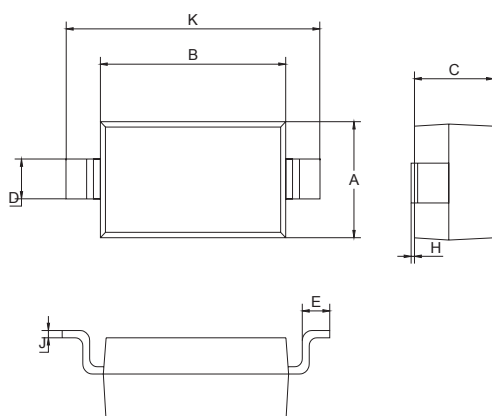


Figure 6. Zener Voltage versus Zener Current
(12 V to 91 V)

Package Outline:

Plastic surface mounted package

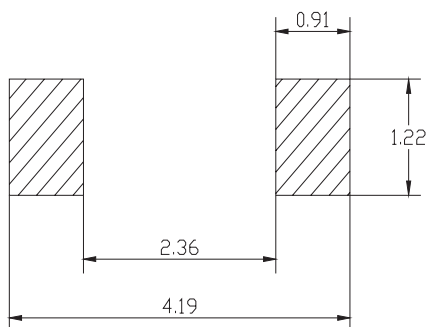


SOD-123		
Dim.	Min.	Max.
A	1.4	1.8
B	2.55	2.85
C	1.15 Typ.	
D	0.55 Typ.	
E	0.3	0.4
H	0.02	0.1
J	0.1 Typ.	
K	3.55	3.85

Dimensions : Millimetres

Surface Mount Zener Diode

Soldering Footprint:



Dimensions : Millimetres

Package Information:

Device	Package	Shipping
MMSZ4702-TR & MMSZ4711-TR	SOD-123	3,000 / Tape & Reel

Part Number Table

Description	Part Number
Surface Mount Zener Diode	MMSZ4702-TR
	MMSZ4711-TR

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