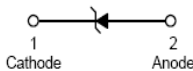
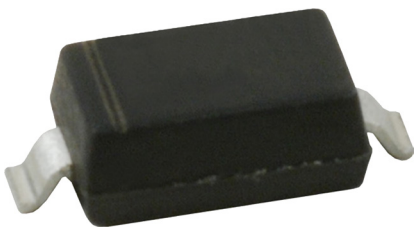


Surface Mount Zener Diode

multicomp^{PRO}

RoHS
Compliant



Features:

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



SOD-123

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 =10mA	V _F	0.9	V
Power dissipation	P _d	500	mW
Thermal resistance, junction to ambient air	R _{θJA}	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
DDZ9702S-7	DM	14.25	15	15.75	50	0.05	11.4
DDZ9711-7	EA	25.65	27	28.35	50	0.01	20.4

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

multicomp^{PRO}

Typical Characteristics:

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

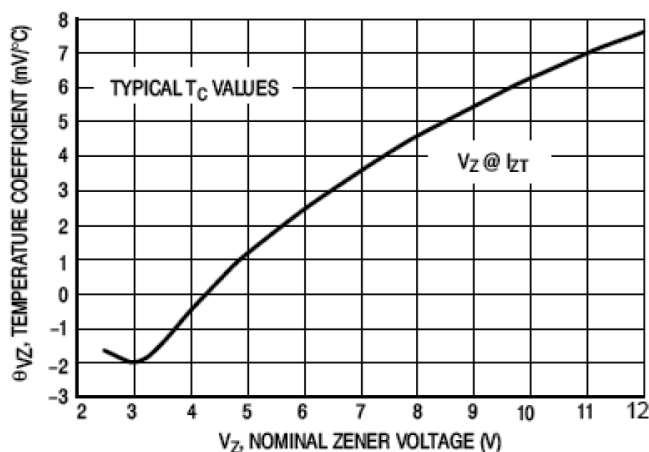


Figure 1. Temperature Coefficients
(Temperature Range -55°C to $+150^\circ\text{C}$)

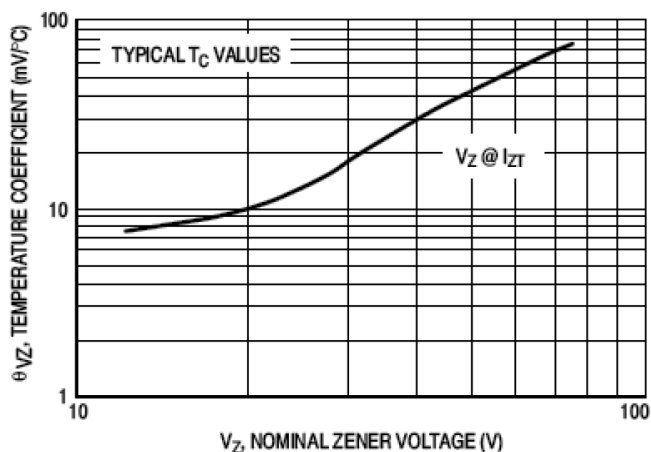


Figure 2. Temperature Coefficients
(Temperature Range -55°C to $+150^\circ\text{C}$)

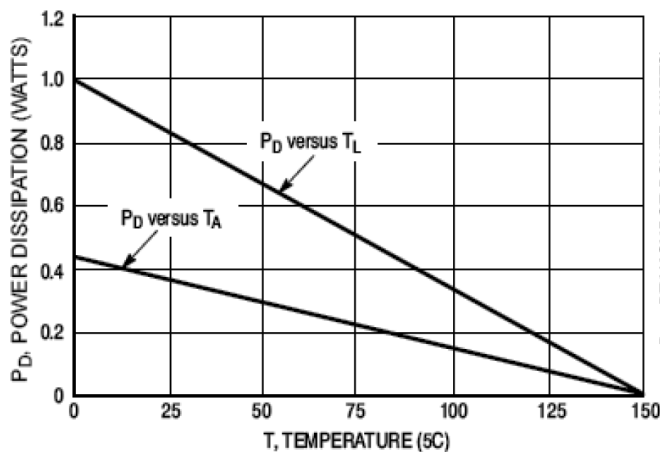


Figure 3. Steady State Power Derating

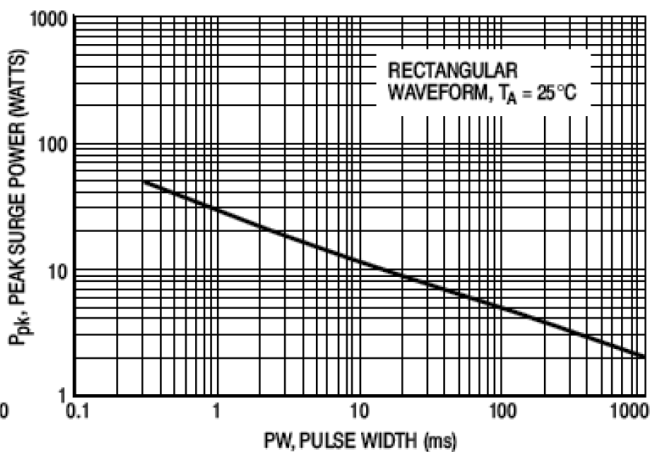


Figure 4. Maximum Nonrepetitive Surge Power

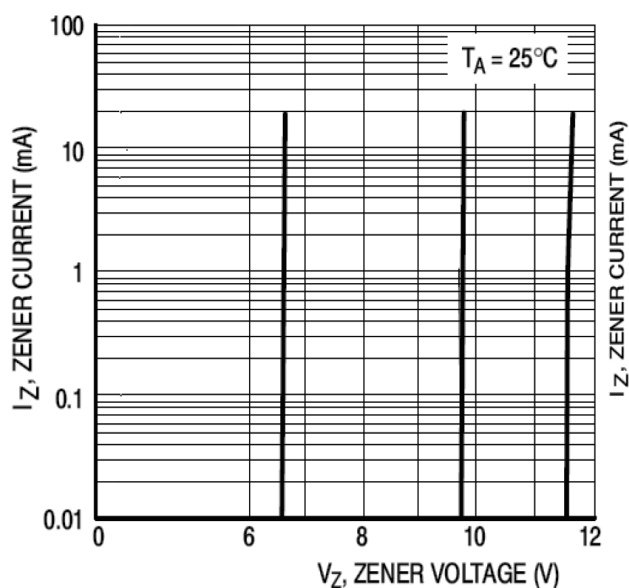


Figure 5. Zener Voltage versus Zener Current
(V_Z Up to 12 V)

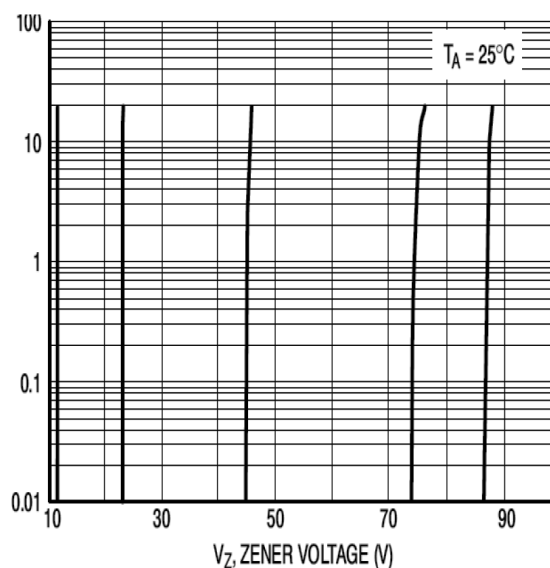
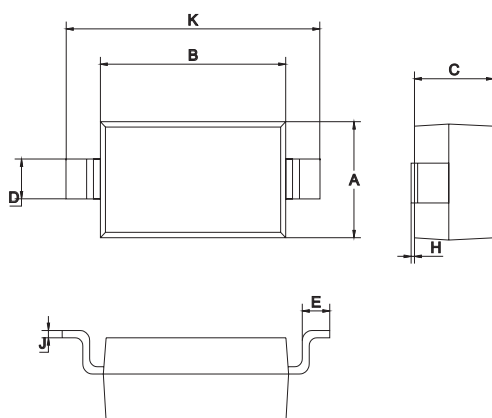


Figure 6. Zener Voltage versus Zener Current
(12 V to 91 V)

Package Outline:

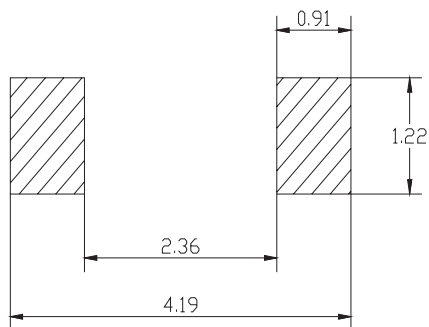
Plastic surface mounted package



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

Soldering Footprint:



Dimensions : Millimetres

Part Number Table

Description	Part Number
Surface Mount Zener Diode, 0.9V, 500mW, SOD-123	DDZ9702S-7
	DDZ9711-7

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