

MM3Z6V8-MM3Z24V ZENER DIODES

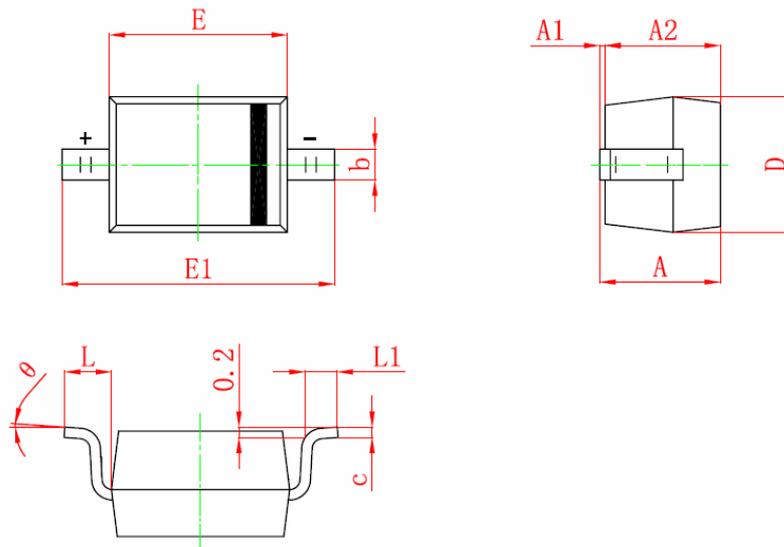
Features:

- Planar Die Construction
- 500mW power Dissipation
- 6.8-24V Nominal Zener Voltage
- Designed for Surface Mount Application
- Plastic Material –UL Recognition Flammability Classification 94V-O
- This is a Pb – Free Device
- All SMC parts are traceable to the wafer lot
- Additional testing can be offered upon request

Mechanical Data:

- Case: SOD-323, Molded Plastic
- Terminals: Plated Leads Solderable per MIL-STD-202, Method 208
- Polarity :Cathode Band
- Weight: 0.004 grams (approx.)

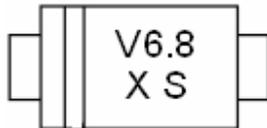
Mechanical Dimensions: In mm / Inches



Symbol	Dimensions In Millimeters		Dimensions In Inches	
	Min	Max	Min	Max
A		1.000		0.039
A1	0.000	0.100	0.000	0.004
A2	0.800	0.900	0.031	0.035
b	0.250	0.350	0.010	0.014
c	0.080	0.150	0.003	0.006
D	1.200	1.400	0.047	0.055
E	1.600	1.800	0.063	0.071
E1	2.500	2.700	0.098	0.106
L	0.475 REF		0.019 REF	
L1	0.250	0.400	0.010	0.016
θ	0°		8°	

SOD-323(CJ)

Marking Diagram:



Where X is Date Code
S is Type Number Suffix

S		
Blank	A	B
±10%Vz	±5%Vz	±2%Vz

V6.8 = Device Code

Cautions: Molding resin
Epoxy resin UL: 94V-0

Ordering Information:

Device	Package	Shipping
MM3Z6V8-MM3Z24V	SOD-323 (Pb-Free)	3000pcs / reel

For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specification.

Maximum Ratings (T_a=25°C, Unless otherwise specified)

Characteristic	Symbol	MM3Z6V8-MM3Z24V	Unit
Power Dissipation at Tamb=25°C (Note 1)	P _D	500	mW
Forward voltage at I _F =10mA I _F =100mA	V _F	0.9 1.1	V
Junction Temperature	T _J	-55 to +150	°C
Storage Temperature Range	T _{STG}	-65 to +150	°C

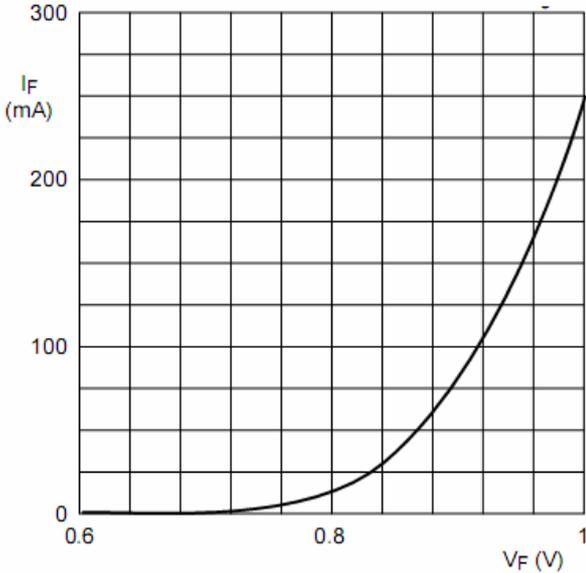
Note 1: Valid provided that leads at a distance of 10mm from case are kept at ambient temperature



Electrical Characteristics ($T_{amb}=25^{\circ}C$, Unless otherwise specified)

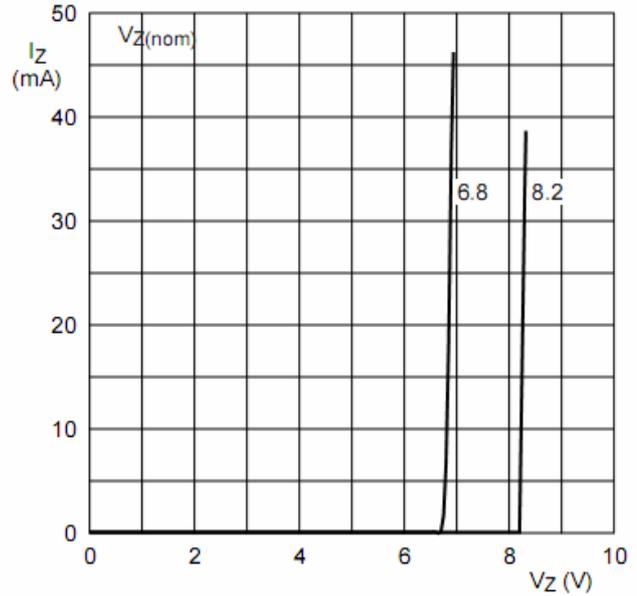
Type Number (Note)	Device Code	Working voltage Vz (V)	Zener Impedance		Reverse current IR (uA)	
			Zzk @ Izk (Ω)	Zzt @ Izt (Ω)		
		Iz = 5mA	Izk = 1 mA	Izt = 5mA	Max	VR (V)
		Nom	Max	Max		
MM3Z6V8	V6.8	6.8	80	15	2	4.0
MM3Z7V5	V7.5	7.5	80	15	1	5.0
MM3Z8V2	V8.2	8.2	80	15	0.7	6.0
MM3Z9V1	V9.1	9.1	100	15	0.50	7.0
MM3Z10V	V10	10	150	20	0.20	8.0
MM3Z11V	V11	11	150	20	0.10	8.0
MM3Z12V	V12	12	150	25	0.10	8.0
MM3Z13V	V13	13	170	30	0.10	8.0
MM3Z15V	V15	15	200	30	0.05	10.5
MM3Z16V	V16	16	200	40	0.05	11.2
MM3Z18V	V18	18	225	45	0.05	12.6
MM3Z20V	V20	20	225	55	0.05	14.0
MM3Z22V	V22	22	250	55	0.05	15.4
MM3Z24V	V24	24	250	70	0.05	16.8

- Note: 1. No SUFFIX Indicates $\pm 10\%$ Standard Vz Tolerance.
 2. SUFFIX "A" Indicates $\pm 5\%$ Standard Vz Tolerance.
 3. SUFFIX "B" Indicates $\pm 2\%$ Standard Vz Tolerance.



$T_j = 25\text{ }^\circ\text{C}$

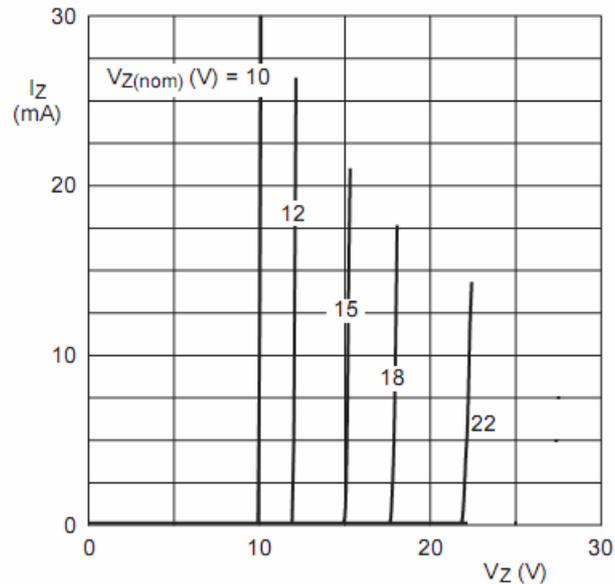
Fig 1. Forward current as a function of forward voltage; typical values



MM3Z6V8 to MM3Z8V2

$T_j = 25\text{ }^\circ\text{C}$

Fig 2. Working current as a function of working voltage; typical values



MM3Z10V to MM3Z22V

$T_j = 25\text{ }^\circ\text{C}$

Fig 3. Working current as a function of working voltage; typical values

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