

GSDZMMSZXXXCW Series

Surface Mount Zener Voltage Regulators

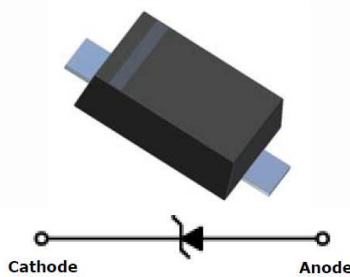
Product Description

Zener Voltage Regulators 500mW

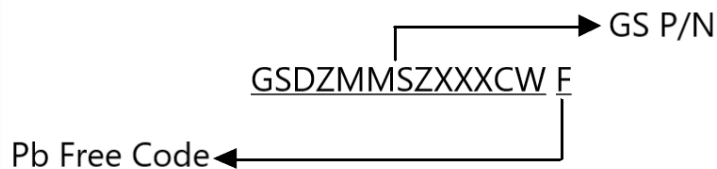
Features

- Wide Zener Voltage Range Selection, 2.0V to 75V
- VZ Tolerance Selection of $\pm 5\%$ (C Series)
- Flat Lead SOD-123 Plastic Package
- Surface Device Type Mounting
- RoHS Compliant
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

Packages & Electrical Symbol



Ordering Information



Part Number	Package	Quantity
GSDZMMSZXXXCWF	SOD-123	3,000 PCS

Absolute Maximum Ratings

($T_A=25^\circ\text{C}$ Unless Otherwise Noted)

Symbol	Conditions	Value	Unit
P_D	Power Dissipation	500	mW
T_{OPR}	Operating Temperature Range	-65 to +150	$^\circ\text{C}$
T_{STG}	Storage Temperature Range	-65 to +150	$^\circ\text{C}$

These ratings are limiting values above which the serviceability of the diode may be impaired.

Electrical Characteristics (T_A=25°C Unless Otherwise Noted)

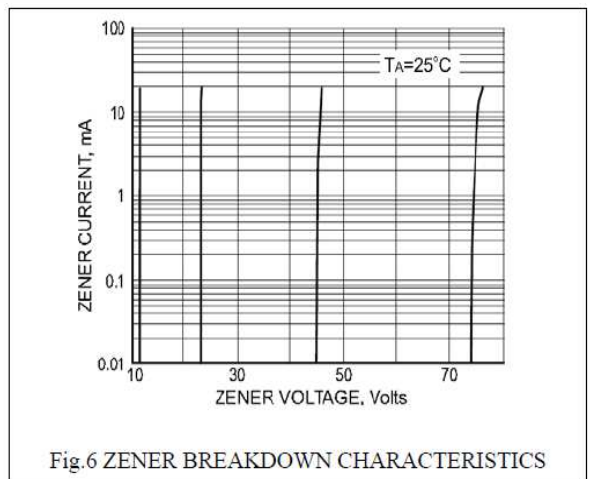
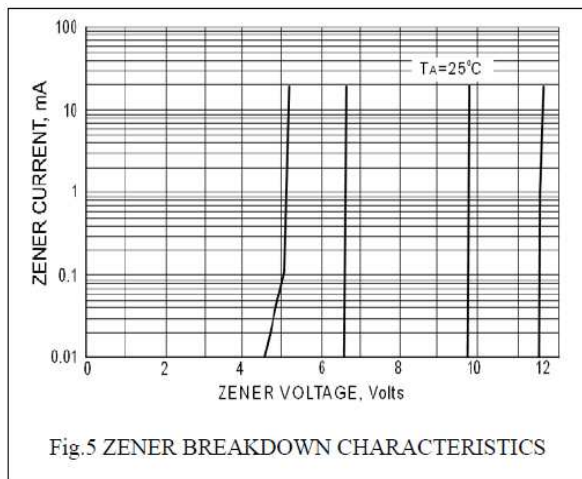
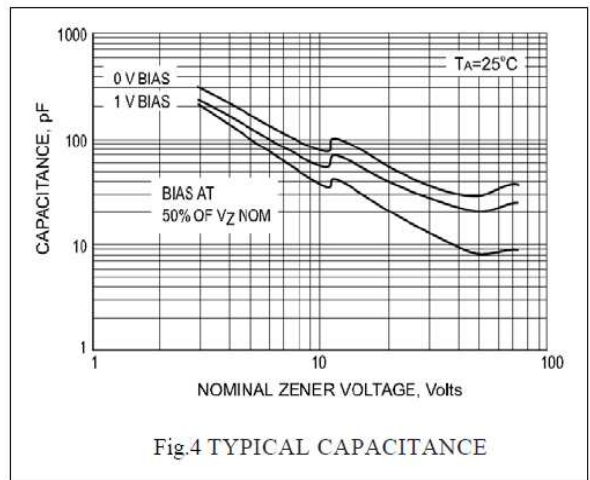
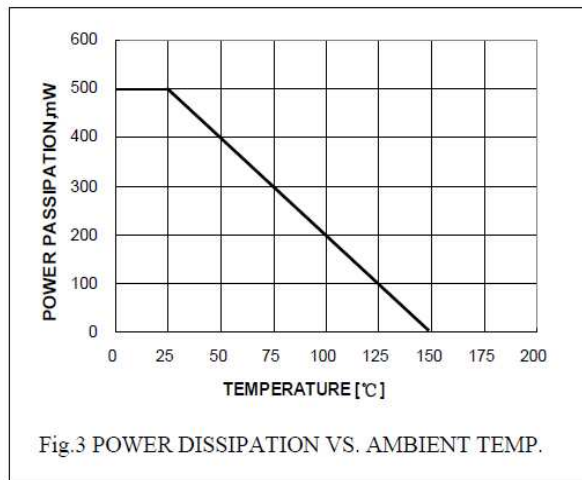
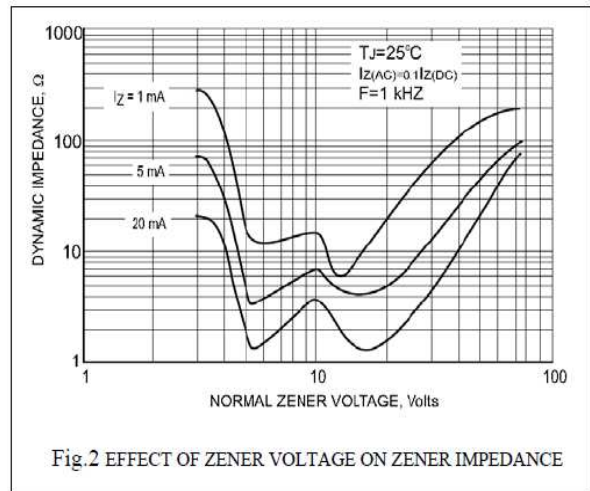
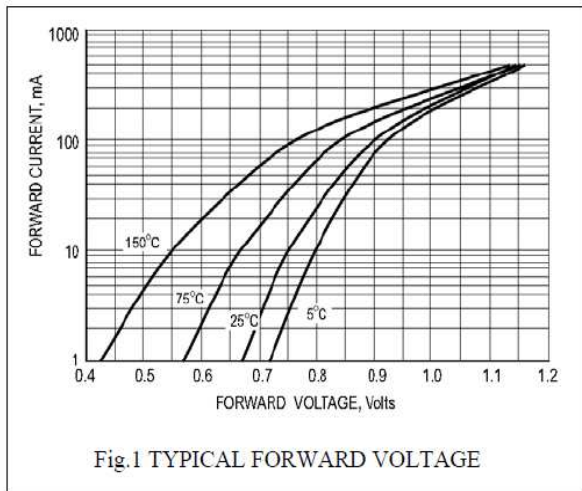
Device Type	Device Marking	V _Z (V)			Z _{ZT} @ I _{ZT} Max		Z _{ZK} @ I _{ZK} Max		I _R @ V _R Max	
		Min	Nom	Max	Ω	mA	Ω	mA	μA	V
GSDZMMSZ2V0CW	2V0Z	1.90	2.0	2.10	100	5	564	1	120	0.5
GSDZMMSZ2V2CW	2V2Z	2.09	2.2	2.31	100	5	564	1	120	0.7
GSDZMMSZ2V4CW	2V4Z	2.28	2.4	2.52	100	5	564	1	45	1
GSDZMMSZ2V7CW	2V7Z	2.57	2.7	2.84	100	5	564	1	18	1
GSDZMMSZ3V0CW	3V0Z	2.85	3.0	3.15	100	5	564	1	9	1
GSDZMMSZ3V3CW	3V3Z	3.14	3.3	3.47	95	5	564	1	4.5	1
GSDZMMSZ3V6CW	3V6Z	3.42	3.6	3.78	90	5	564	1	4.5	1
GSDZMMSZ3V9CW	3V9Z	3.71	3.9	4.10	90	5	564	1	2.7	1
GSDZMMSZ4V3CW	4V3Z	4.09	4.3	4.52	90	5	564	1	2.7	1
GSDZMMSZ4V7CW	4V7Z	4.47	4.7	4.94	80	5	470	1	2.7	2
GSDZMMSZ5V1CW	5V1Z	4.85	5.1	5.36	60	5	451	1	1.8	2
GSDZMMSZ5V6CW	5V6Z	5.32	5.6	5.88	40	5	376	1	0.9	2
GSDZMMSZ6V2CW	6V2Z	5.89	6.2	6.51	10	5	141	1	2.7	4
GSDZMMSZ6V8CW	6V8Z	6.46	6.8	7.14	15	5	75	1	1.8	4
GSDZMMSZ7V5CW	7V5Z	7.11	7.5	7.86	15	5	75	1	0.9	5
GSDZMMSZ8V2CW	8V2Z	7.79	8.2	8.61	15	5	75	1	0.63	5
GSDZMMSZ9V1CW	9V1Z	8.65	9.1	9.56	15	5	94	1	0.45	6
GSDZMMSZ10VCW	10VZ	9.50	10	10.50	20	5	141	1	0.18	7
GSDZMMSZ11VCW	11VZ	10.45	11	11.55	20	5	141	1	0.09	8
GSDZMMSZ12VCW	12VZ	11.40	12	12.60	25	5	141	1	0.09	8
GSDZMMSZ13VCW	13VZ	12.35	13	13.65	30	5	160	1	0.09	8
GSDZMMSZ15VCW	15VZ	14.25	15	15.75	30	5	188	1	0.045	10.5
GSDZMMSZ16VCW	16VZ	15.20	16	16.80	40	5	188	1	0.045	11.2
GSDZMMSZ18VCW	18VZ	17.10	18	18.90	45	5	212	1	0.045	12.6
GSDZMMSZ20VCW	20VZ	19.00	20	21.00	55	5	212	1	0.045	14
GSDZMMSZ22VCW	22VZ	20.9	22	23.10	55	5	235	1	0.045	15.4
GSDZMMSZ24VCW	24VZ	22.8	24	25.20	70	5	235	1	0.045	16.8
GSDZMMSZ27VCW	27VZ	25.65	27	28.35	80	2	282	0.5	0.045	18.9
GSDZMMSZ30VCW	30VZ	28.5	30	31.50	80	2	282	0.5	0.045	21
GSDZMMSZ33VCW	33VZ	31.35	33	34.65	80	2	306	0.5	0.045	23
GSDZMMSZ36VCW	36VZ	34.20	36	37.80	90	2	329	0.5	0.045	25.2
GSDZMMSZ39VCW	39VZ	37.05	39	40.95	130	2	329	0.5	0.045	27.3
GSDZMMSZ43VCW	43VZ	40.85	43	45.15	150	2	353	0.5	0.045	30.1
GSDZMMSZ47VCW	47VZ	44.65	47	49.35	170	2	353	0.5	0.045	33
GSDZMMSZ51VCW	51VZ	48.45	51	53.55	180	2	376	0.5	0.045	35.7
GSDZMMSZ56VCW	56VZ	52	56	58.80	200	2	400	0.5	0.045	39.2
GSDZMMSZ62VCW	62VZ	58.90	62	65.10	215	2	423	0.5	0.045	43.4
GSDZMMSZ68VCW	68VZ	64.60	68	71.40	240	2	447	0.5	0.045	47.6
GSDZMMSZ75VCW	75VZ	71.25	75	78.75	255	2	470	0.5	0.045	52.5

VF Forward Voltage = 900mV Maximum @ **IF** = 10 mA for all types

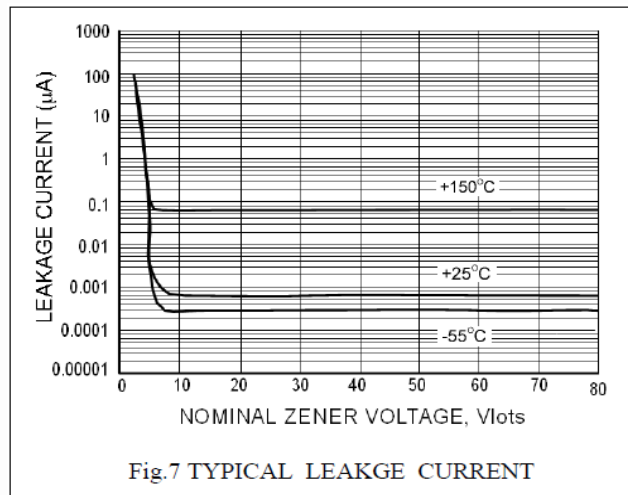
Note:

1. The Zener Voltage(V_z) is tested under pulse condition of 10mS
2. The device numbers listed have a standard tolerance on the nominal Zener voltage of $\pm 5\%$.
3. For detailed information on price, availability and delivery of nominal Zener voltage between the voltages between the voltages shown and tighter voltage tolerances, contract your nearest GS representative.
4. The Zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an rms value equal to 10% of the dc Zener current(I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK} .

Typical Characteristics

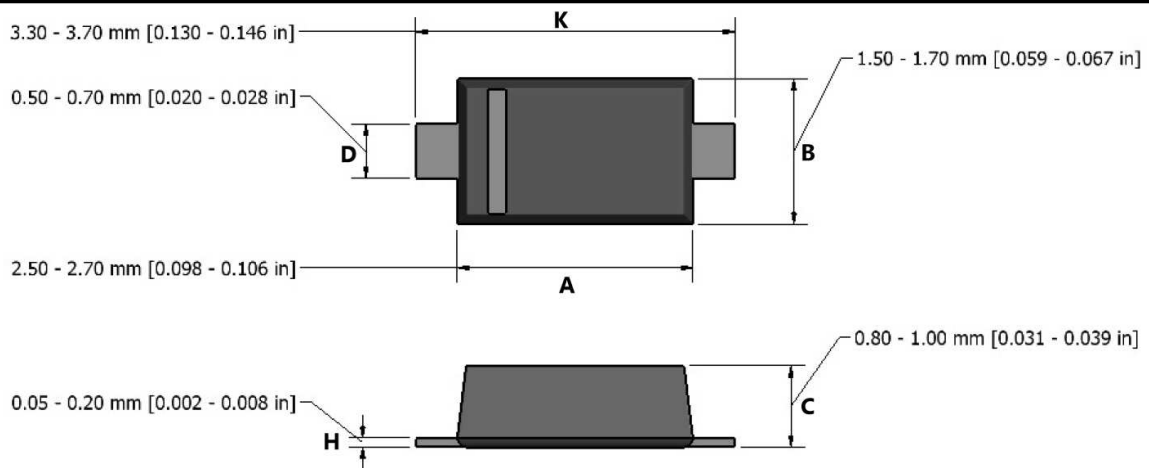


Typical Characteristics(Continue)



Package Dimension

SOD-123







Note: Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.



Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	2.5	2.7	0.098	0.106
B	1.5	1.7	0.059	0.067
C	0.8	1	0.031	0.039
D	0.5	0.7	0.02	0.028
H	0.05	0.2	0.002	0.008
K	3.3	3.7	0.13	0.146

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