

GSDZMM3ZXXCW Series

Surface Mount Zener Voltage Regulators

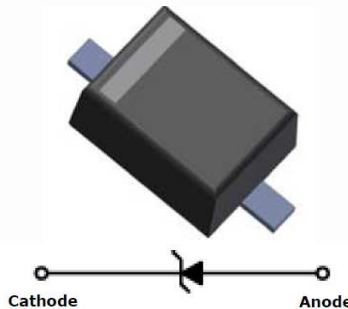
Product Description

Zener Voltage Regulators 200mW

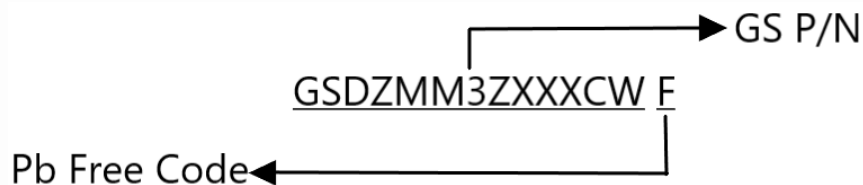
Features

- Wide Zener Voltage Range Selection, 2.0V to 75V
- VZ Tolerance Selection of $\pm 5\%$ (C Series)
- Flat Lead SOD-323 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
GSDZMM3ZXXCWF	SOD-323	3,000 PCS

Absolute Maximum Ratings

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

Symbol	Conditions	Value	Unit
P_D	Power Dissipation	200	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)

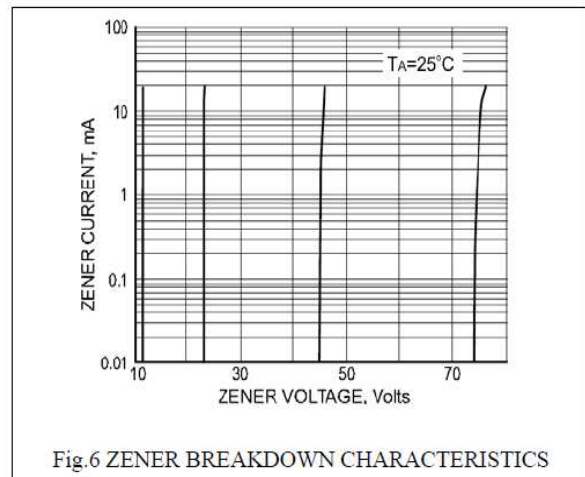
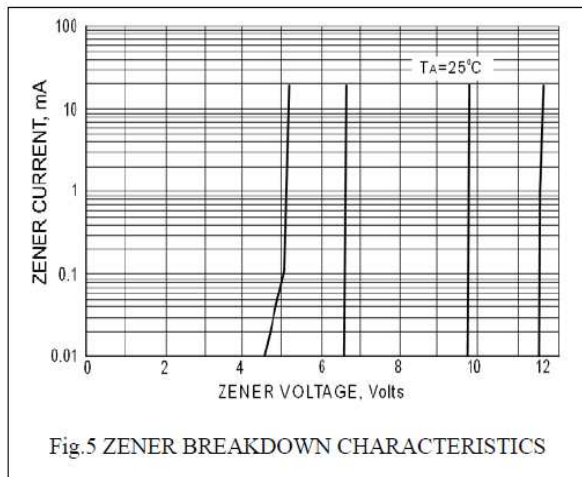
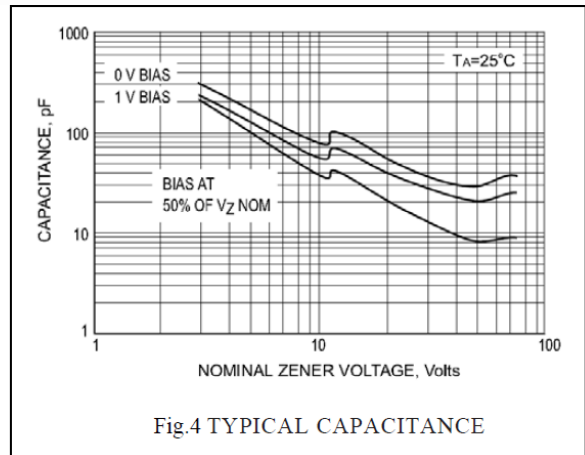
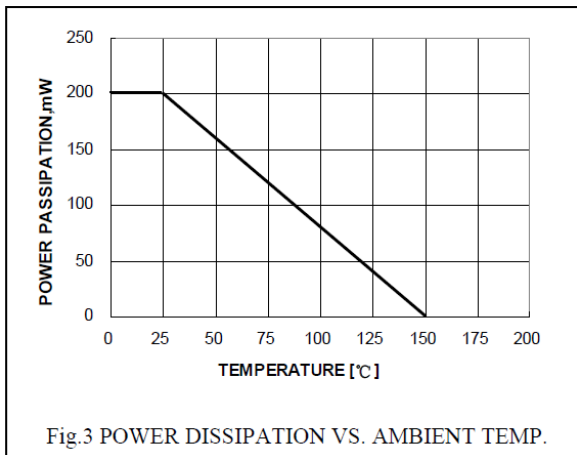
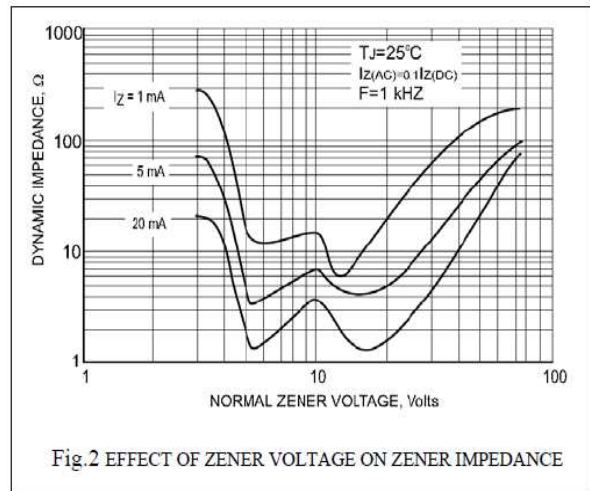
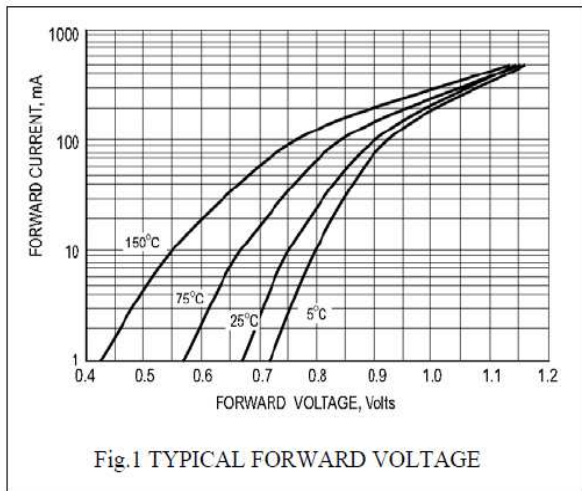
Device Type	Device Marking	V _Z (V)			Z _{ZT} @ I _{ZT} Max		Z _{ZK} @ I _{ZK} Max		I _R @ V _R Max	
		Min	Nom	Max	Ω	mA	Ω	mA	μA	V
GSDZMM3Z2V0CW	Z+	1.90	2.0	2.10	100	5	564	1	120	0.5
GSDZMM3Z2V2CW	Z⊥	2.09	2.2	2.31	100	5	564	1	120	0.7
GSDZMM3Z2V4CW	Z0	2.28	2.4	2.52	100	5	564	1	45	1
GSDZMM3Z2V7CW	Z1	2.57	2.7	2.84	100	5	564	1	18	1
GSDZMM3Z3V0CW	Z2	2.85	3.0	3.15	100	5	564	1	9	1
GSDZMM3Z3V3CW	Z3	3.14	3.3	3.47	95	5	564	1	4.5	1
GSDZMM3Z3V6CW	Z4	3.42	3.6	3.78	90	5	564	1	4.5	1
GSDZMM3Z3V9CW	Z5	3.71	3.9	4.10	90	5	564	1	2.7	1
GSDZMM3Z4V3CW	Z6	4.09	4.3	4.52	90	5	564	1	2.7	1
GSDZMM3Z4V7CW	Z7	4.47	4.7	4.94	80	5	470	1	2.7	2
GSDZMM3Z5V1CW	Z8	4.85	5.1	5.36	60	5	451	1	1.8	2
GSDZMM3Z5V6CW	Z9	5.32	5.6	5.88	40	5	376	1	0.9	2
GSDZMM3Z6V2CW	ZA	5.89	6.2	6.51	10	5	141	1	2.7	4
GSDZMM3Z6V8CW	ZB	6.46	6.8	7.14	15	5	75	1	1.8	4
GSDZMM3Z7V5CW	ZC	7.11	7.5	7.86	15	5	75	1	0.9	5
GSDZMM3Z8V2CW	ZD	7.79	8.2	8.61	15	5	75	1	0.63	5
GSDZMM3Z9V1CW	ZE	8.65	9.1	9.56	15	5	94	1	0.45	6
GSDZMM3Z10VCW	ZF	9.50	10	10.50	20	5	141	1	0.18	7
GSDZMM3Z11VCW	ZG	10.45	11	11.55	20	5	141	1	0.09	8
GSDZMM3Z12VCW	ZH	11.40	12	12.60	25	5	141	1	0.09	8
GSDZMM3Z13VCW	ZJ	12.35	13	13.65	30	5	160	1	0.09	8
GSDZMM3Z15VCW	ZK	14.25	15	15.75	30	5	188	1	0.045	10.5
GSDZMM3Z16VCW	ZL	15.20	16	16.80	40	5	188	1	0.045	11.2
GSDZMM3Z18VCW	ZM	17.10	18	18.90	45	5	212	1	0.045	12.6
GSDZMM3Z20VCW	ZN	19.00	20	21.00	55	5	212	1	0.045	14
GSDZMM3Z22VCW	ZP	20.9	22	23.10	55	5	235	1	0.045	15.4
GSDZMM3Z24VCW	ZR	22.8	24	25.20	70	5	235	1	0.045	16.8
GSDZMM3Z27VCW	ZS	25.65	27	28.35	80	2	282	0.5	0.045	18.9
GSDZMM3Z30VCW	ZT	28.5	30	31.50	80	2	282	0.5	0.045	21
GSDZMM3Z33VCW	ZU	31.35	33	34.65	80	2	306	0.5	0.045	23
GSDZMM3Z36VCW	ZV	34.20	36	37.80	90	2	329	0.5	0.045	25.2
GSDZMM3Z39VCW	ZW	37.05	39	40.95	130	2	329	0.5	0.045	27.3
GSDZMM3Z43VCW	ZX	40.85	43	45.15	150	2	353	0.5	0.045	30.1
GSDZMM3Z47VCW	ZY	44.65	47	49.35	170	2	353	0.5	0.045	33
GSDZMM3Z51VCW	Z-	48.45	51	53.55	180	2	376	0.5	0.045	35.7
GSDZMM3Z56VCW	Z=	52	56	58.80	200	2	400	0.5	0.045	39.2
GSDZMM3Z62VCW	Z≡	58.90	62	65.10	215	2	423	0.5	0.045	43.4
GSDZMM3Z68VCW	Z>	64.60	68	71.40	240	2	447	0.5	0.045	47.6
GSDZMM3Z75VCW	Z<	71.25	75	78.75	255	2	470	0.5	0.045	52.5

VF Forward Voltage = 1V Maximum @ IF = 10 mA for all types

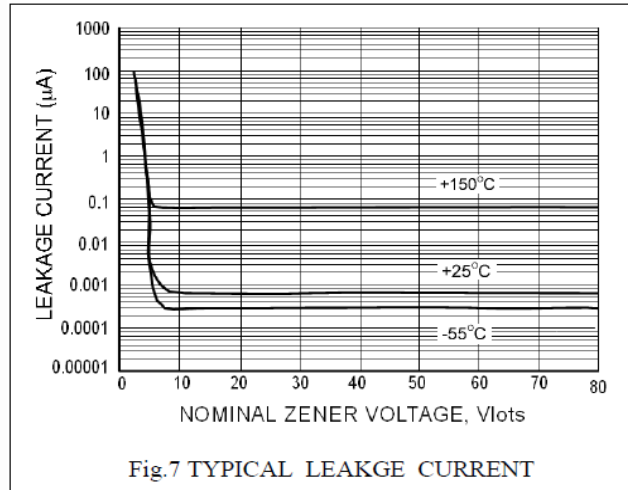
Note:

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

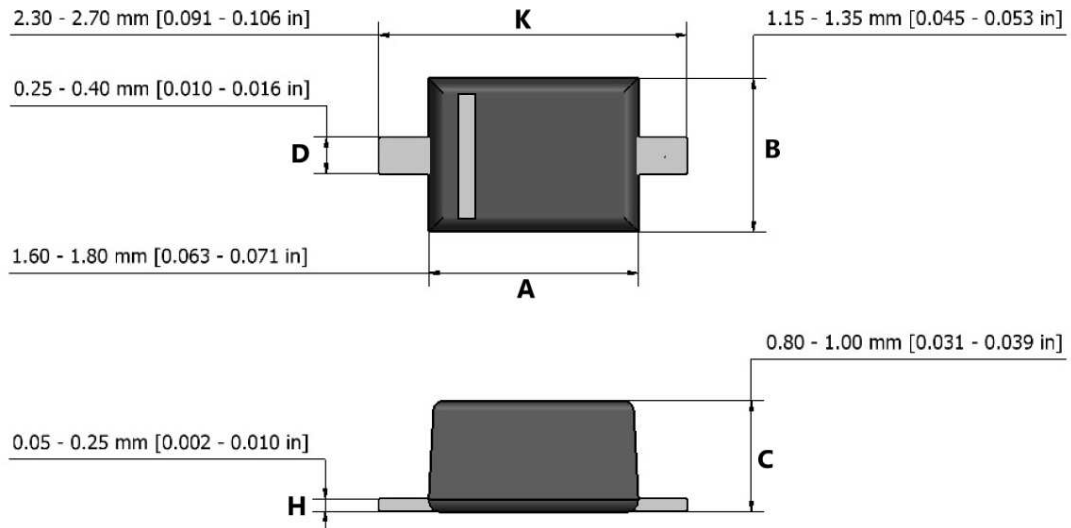


Typical Characteristics(Continue)



Package Dimension

SOD-323



NOTES:

1. The above package outline is similar to JEITA SC-90.
2. Dimensions are exclusive of Burrs, Mold Flash & Tie Bar extrusions.





Dimensions				
Symbol	Millimeters		Inches	
	Min	Max	Min	Max
A	1.6	1.8	0.063	0.071
B	1.15	1.35	0.045	0.053
C	0.8	1	0.031	0.039
D	0.25	0.4	0.01	0.016
H	0.05	0.25	0.002	0.01
K	2.3	2.7	0.091	0.106



Pin 1.CATHODE
Pin 2.ANODE

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