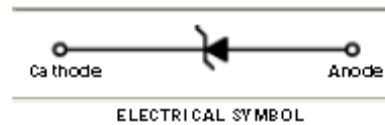


Specification Features:

- ◆ Wide Zener Voltage Range Selection, 2.0V to 75V
- ◆ Flat Lead SOD-523 Small Outline Plastic Package
- ◆ Extremely Small SOD-523 Package
- ◆ Surface Device Type Mounting
- ◆ ROHS Compliant
- ◆ Green EMC
- ◆ Matte Tin(Sn) Terminal Finish
- ◆ Band Indicates Cathode

SOD-523 Flat Lead



Absolute Maximum Ratings $T_A=25^\circ\text{C}$ unless otherwise noted

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
T_{STG}	Storage Temperature Range	-55 to +150	$^\circ\text{C}$
T_{OPR}	Operating Temperature Range	-55 to +150	$^\circ\text{C}$

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

Electrical Characteristics $T_A=25^\circ\text{C}$ unless otherwise noted

Device Type	Device Marking	$V_Z@I_{ZT}$ (Volts)			I_{ZT} (mA)	$Z_{ZT}@I_{ZT}$ (Ω) Max	I_{ZK} (mA)	$Z_{ZK}@I_{ZK}$ (Ω) Max	$IR@VR$ (μA) Max	VR (Volts)
		Min	Nom	Max						
MM5Z2V0C	5+	1.9	2.0	2.1	5	100	1	564	120	0.5
MM5Z2V2C	5 \perp	2.09	2.2	2.31	5	100	1	564	120	0.7
MM5Z2V4C	50	2.2	2.4	2.6	5	100	1	1000	50	1
MM5Z2V7C	51	2.5	2.7	2.9	5	100	1	1000	20	1
MM5Z3V0C	52	2.8	3.0	3.2	5	100	1	1000	10	1
MM5Z3V3C	53	3.1	3.3	3.5	5	95	1	1000	5	1
MM5Z3V6C	54	3.4	3.6	3.8	5	90	1	1000	5	1
MM5Z3V9C	55	3.7	3.9	4.1	5	90	1	1000	3	1
MM5Z4V3C	56	4.0	4.3	4.6	5	90	1	1000	3	1
MM5Z4V7C	57	4.4	4.7	5.0	5	80	1	800	3	2

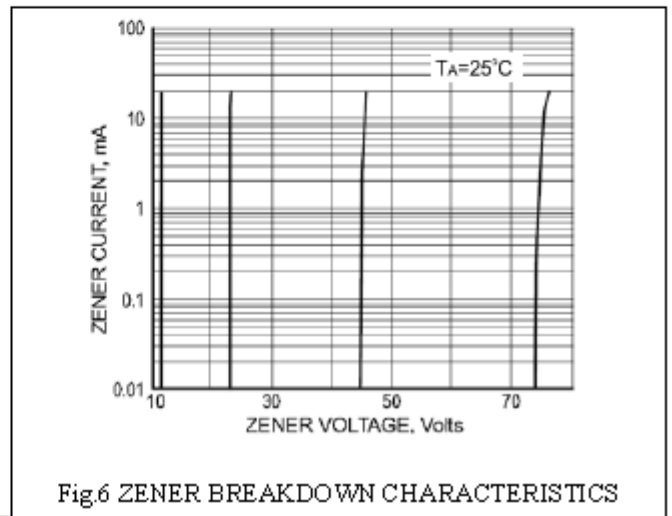
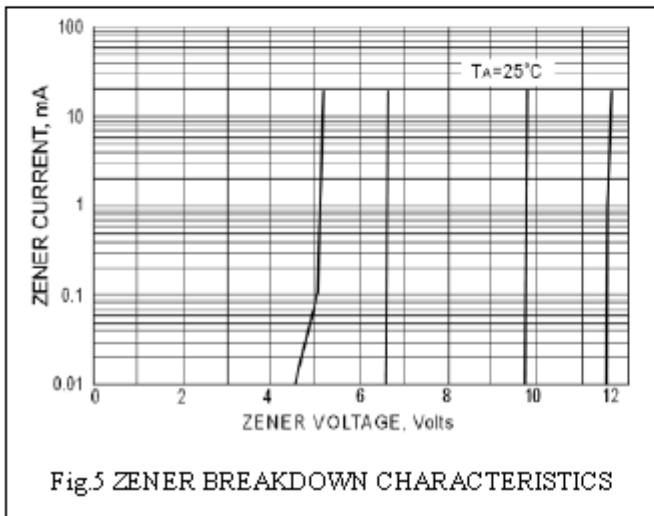
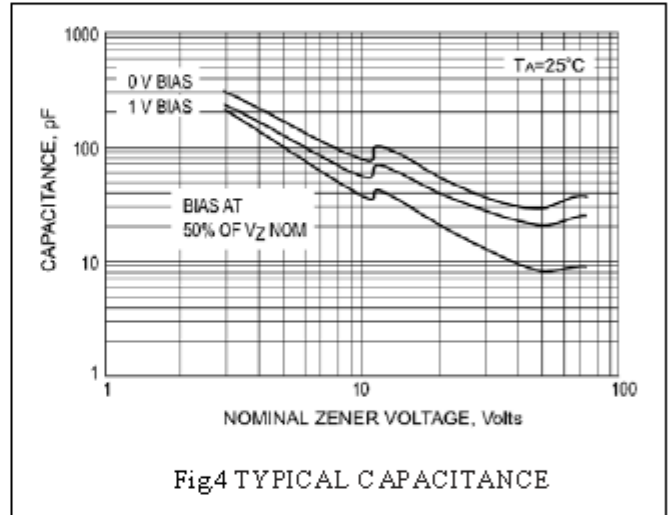
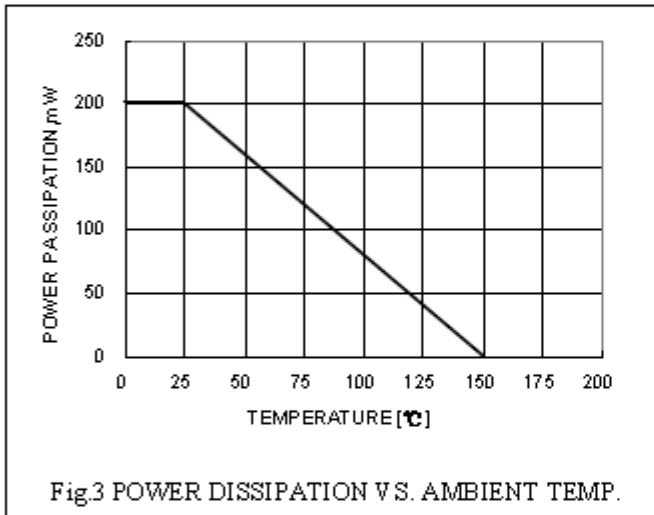
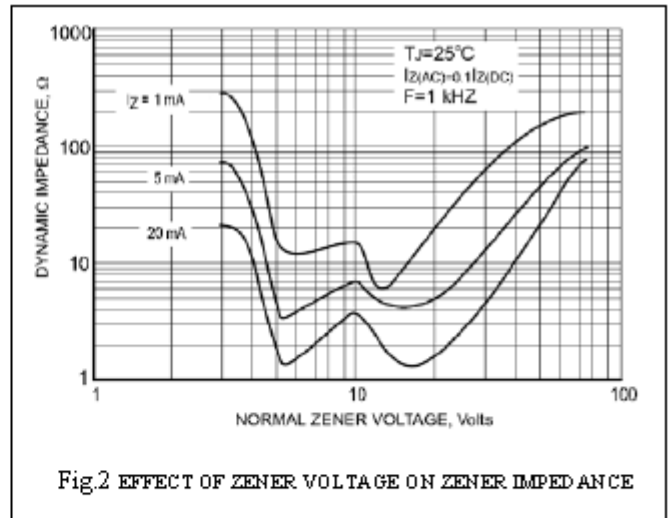
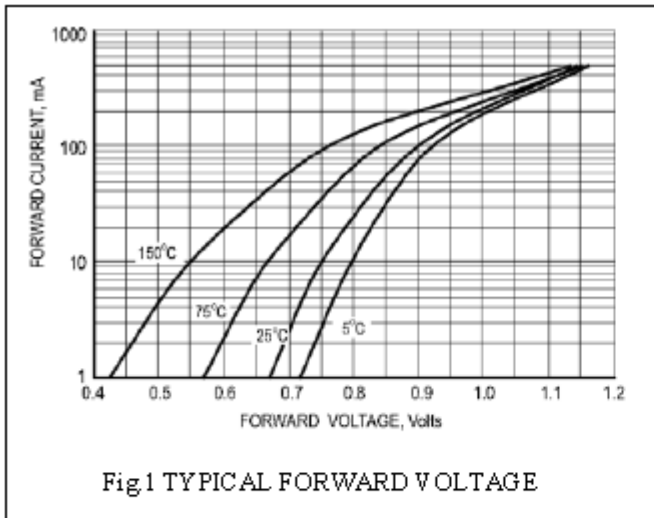
Device Type	Device Marking	$V_Z@I_{ZT}$ (Volts)			I_{ZT} (mA)	$Z_{ZT}@I_{ZT}$ (Ω) Max	I_{ZK} (mA)	$Z_{ZK}@I_{ZK}$ (Ω) Max	$I_R@V_R$ (μ A) Max	V_R (Volts)
		Min	Nom	Max						
MM5Z5V1C	58	4.8	5.1	5.4	5	60	1	500	2	2
MM5Z5V6C	59	5.2	5.6	6.0	5	40	1	200	1	2
MM5Z6V2C	5A	5.8	6.2	6.6	5	10	1	100	3	4
MM5Z6V8C	5B	6.4	6.8	7.2	5	15	1	160	2	4
MM5Z7V5C	5C	7.0	7.5	7.9	5	15	1	160	1	5
MM5Z8V2C	5D	7.7	8.2	8.7	5	15	1	160	0.7	5
MM5Z9V1C	5E	8.5	9.1	9.6	5	15	1	160	0.2	7
MM5Z10VC	5F	9.4	10	10.6	5	20	1	160	0.1	8
MM5Z11VC	5G	10.4	11	11.6	5	20	1	160	0.1	8
MM5Z12VC	5H	11.4	12	12.7	5	25	1	80	0.1	8
MM5Z13VC	5J	12.4	13	14.1	5	30	1	80	0.1	8
MM5Z15VC	5K	14.3	15	15.8	5	30	1	80	0.05	10.5
MM5Z16VC	5L	15.3	16	17.1	5	40	1	80	0.05	11.2
MM5Z18VC	5M	16.8	18	19.1	5	45	1	80	0.05	12.6
MM5Z20VC	5N	18.8	20	21.2	5	55	1	100	0.05	14
MM5Z22VC	5P	20.8	22	23.3	5	55	1	100	0.05	15.4
MM5Z24VC	5R	22.8	24	25.6	5	70	1	120	0.05	16.8
MM5Z27VC	5S	25.1	27	28.9	2	80	0.5	300	0.05	18.9
MM5Z30VC	5T	28	30	32	2	80	0.5	300	0.05	21
MM5Z33VC	5U	31	33	35	2	80	0.5	300	0.05	23.2
MM5Z36VC	5V	34	36	38	2	90	0.5	500	0.05	25.2
MM5Z39VC	5X	37	39	41	2	130	0.5	500	0.05	27.3

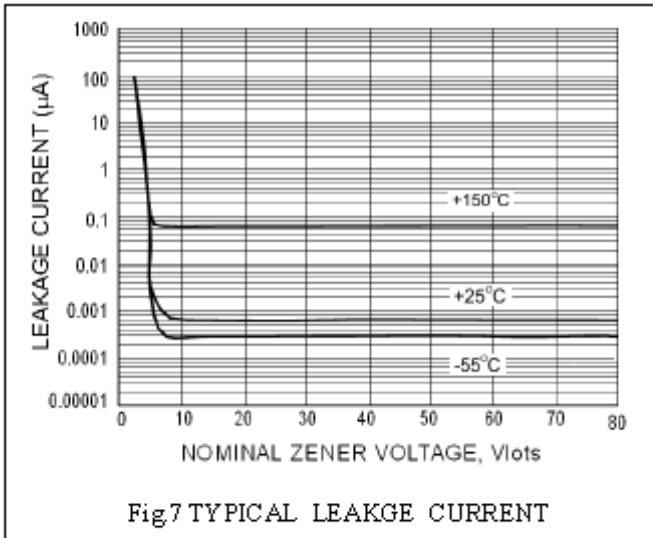
V_F Forward Voltage =1V Maximum @ I_F =10mA for all types

NOTES:

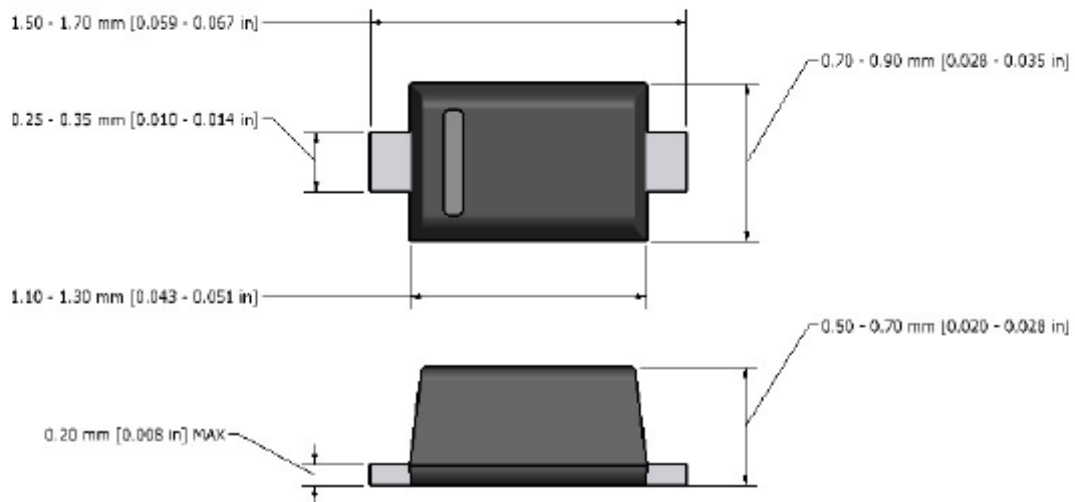
1. The Zener Voltage (V_Z) is tested under pulse condition of 10Ms
2. For detailed information on price,availability and deliver of nominal zener voltages between the voltages shown and tightere voltage tolerances,contact your nearest GTS Electronics representative.
3. The zener impedance is derived 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} .

RATINGS AND CHARACTERISTIC CURVES ($T_A=25^\circ\text{C}$ unless otherwise noted)





Flat Lead SOD-523 Package Outline



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