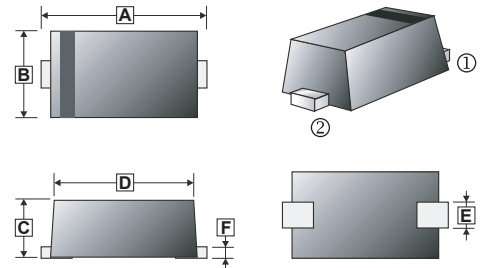


RoHS Compliant Product
A suffix of "-C" specifies halogen & lead-free

FEATURES

- Wide Zener Voltage Range Selection, 4.3V to 75V
- V_Z Tolerance Selection of $\pm 2\%$
- Flat Lead SOD-323L Small Outline Plastic Package
- Surface Device Type Mounting
- Green EMC
- Matte Tin(Sn) Lead Finish
- Band Indicates Cathode

SOD-323L



REF.	Millimeter		REF.	Millimeter	
	Min.	Max.		Min.	Max.
A	2.30	2.70	D	1.60	1.80
B	1.15	1.35	E	0.25	0.40
C	0.80	1.10	F	0.05	0.25

PACKAGE INFORMATION

Package	MPQ	Leader Size
SOD-323L	3K	7 inch



ABSOLUTE MAXIMUM RATINGS ($T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Rating	Unit
Power Dissipation	P_D	200	mW
Operating and Storage Temperature Range	T_J, T_{STG}	-65~150	$^\circ\text{C}$

ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified, $V_F=900\text{mV}$ Maximum @ $I_F=10\text{mA}$)

Type Number	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Leakage Current	
		$V_Z@I_{ZT}$			I_{ZT}	$Z_{ZT}@I_{ZT}$	$Z_{ZK}@I_{ZK}$	I_{ZK}	$I_R@V_R$	
		Min(V)	Nom(V)	Max(V)	mA	Ω	Ω	mA	μA	V
MTSZ5229CWS	229C	4.214	4.3	4.386	20	22	2000	0.25	5	1
MTSZ5230CWS	230C	4.606	4.7	4.794	20	19	1900	0.25	5	2
MTSZ5231CWS	231C	4.998	5.1	5.202	20	17	1600	0.25	5	2
MTSZ5232CWS	232C	5.488	5.6	5.712	20	11	1600	0.25	5	3
MTSZ5233CWS	233C	5.88	6	6.12	20	7	1600	0.25	5	3.5
MTSZ5234CWS	234C	6.076	6.2	6.324	20	7	1000	0.25	5	4
MTSZ5235CWS	235C	6.664	6.8	6.936	20	5	750	0.25	3	5
MTSZ5236CWS	236C	7.35	7.5	7.65	20	6	500	0.25	3	6
MTSZ5237CWS	237C	8.036	8.2	8.364	20	8	500	0.25	3	6.5
MTSZ5238CWS	238C	8.526	8.7	8.874	20	8	600	0.25	3	6.5
MTSZ5239CWS	239C	8.918	9.1	9.282	20	10	600	0.25	3	7
MTSZ5240CWS	240C	9.8	10	10.2	20	17	600	0.25	3	8
MTSZ5241CWS	241C	10.78	11	11.22	20	22	600	0.25	2	8.4
MTSZ5242CWS	242C	11.76	12	12.24	20	30	600	0.25	1	9.1
MTSZ5243CWS	243C	12.74	13	13.26	9.5	13	600	0.25	0.5	9.9
MTSZ5244CWS	244C	13.72	14	14.28	9	15	600	0.25	0.1	10
MTSZ5245CWS	245C	14.7	15	15.3	8.5	16	600	0.25	0.1	11
MTSZ5246CWS	246C	15.68	16	16.32	7.8	17	600	0.25	0.1	12
MTSZ5247CWS	247C	16.66	17	17.34	7.4	19	600	0.25	0.1	13
MTSZ5248CWS	248C	17.64	18	18.36	7	21	600	0.25	0.1	14
MTSZ5249CWS	249C	18.62	19	19.38	6.6	23	600	0.25	0.1	14
MTSZ5250CWS	250C	19.6	20	20.4	6.2	25	600	0.25	0.1	15
MTSZ5251CWS	251C	21.56	22	22.44	5.6	29	600	0.25	0.1	17
MTSZ5252CWS	252C	23.52	24	24.48	5.2	33	600	0.25	0.1	18
MTSZ5253CWS	253C	24.5	25	25.5	5	35	600	0.25	0.1	19
MTSZ5254CWS	254C	26.46	27	27.54	4.6	41	600	0.25	0.1	21
MTSZ5255CWS	255C	27.44	28	28.56	4.5	44	600	0.25	0.1	21
MTSZ5256CWS	256C	29.4	30	30.6	4.2	49	600	0.25	0.1	23
MTSZ5257CWS	257C	32.34	33	33.66	3.8	58	700	0.25	0.1	25
MTSZ5258CWS	258C	35.28	36	36.72	3.4	70	700	0.25	0.1	27

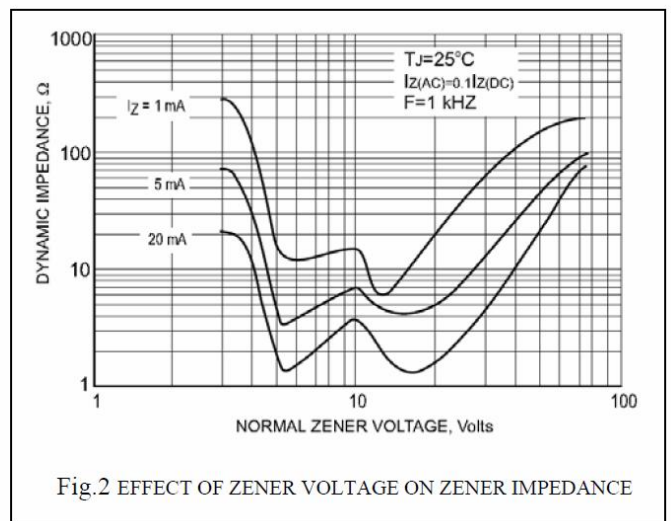
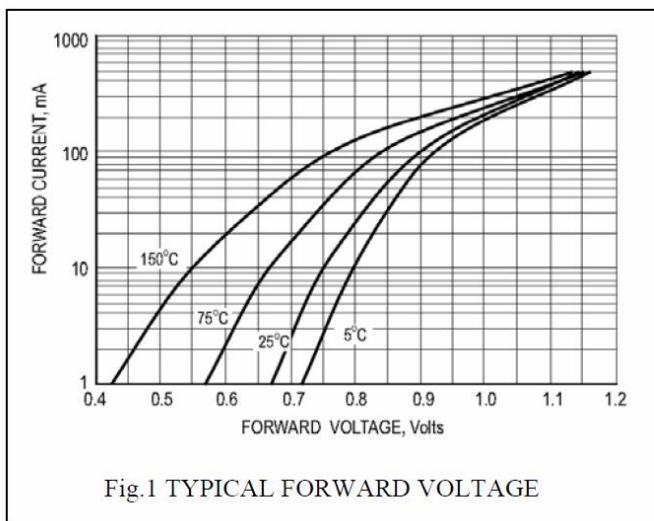
ELECTRICAL CHARACTERISTICS ($T_A=25^\circ\text{C}$ unless otherwise specified, $V_F=900\text{mV}$ Maximum @ $I_F=10\text{mA}$)

Type Number	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Leakage Current	
		$V_Z@I_{ZT}$			I_{ZT}	$Z_{ZT}@I_{ZT}$	$Z_{ZK}@I_{ZK}$	I_{ZK}	$I_R@V_R$	
		Min(V)	Nom(V)	Max(V)	mA	Ω	Ω	mA	μA	V
MTSZ5259CWS	259C	38.22	39	39.78	3.2	80	800	0.25	0.1	30
MTSZ5260CWS	260C	42.14	43	43.86	3	93	900	0.25	0.1	33
MTSZ5261CWS	261C	46.06	47	47.94	2.7	105	1000	0.25	0.1	36
MTSZ5262CWS	262C	49.98	51	52.02	2.5	125	1100	0.25	0.1	39
MTSZ5263CWS	263C	54.88	56	57.12	2.2	150	1300	0.25	0.1	43
MTSZ5264CWS	264C	58.8	60	61.2	2.1	170	1400	0.25	0.1	46
MTSZ5265CWS	265C	60.76	62	63.24	2	185	1400	0.25	0.1	47
MTSZ5266CWS	266C	66.64	68	69.36	1.8	230	1600	0.25	0.1	52
MTSZ5267CWS	267C	73.5	75	76.5	1.7	270	1700	0.25	0.1	56

Notes:

1. The zener voltage (V_Z) is tested under pulse condition of 1mS.
2. The device numbers listed have a standard tolerance on the nominal zener voltage of $\pm 2\%$.
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} .

CHARACTERISTIC CURVES



CHARACTERISTIC CURVES

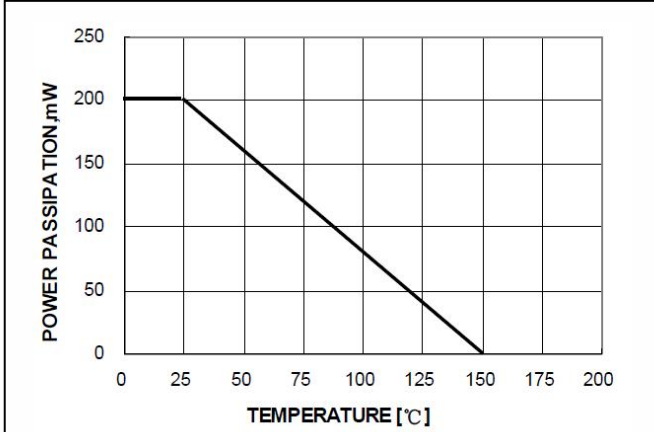


Fig.3 POWER DISSIPATION VS. AMBIENT TEMP.

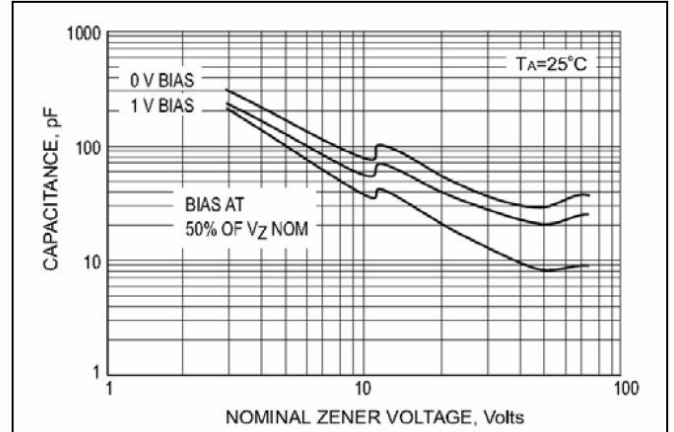


Fig.4 TYPICAL CAPACITANCE

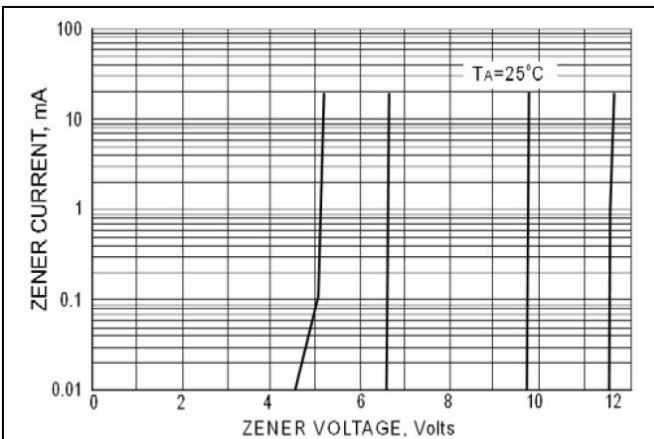


Fig.5 ZENER BREAKDOWN CHARACTERISTICS

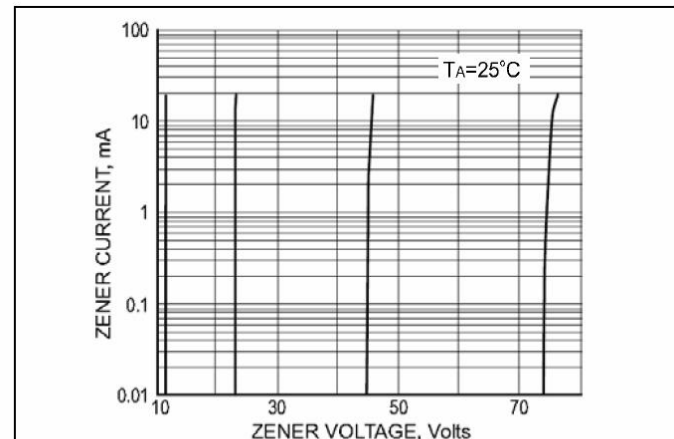


Fig.6 ZENER BREAKDOWN CHARACTERISTICS

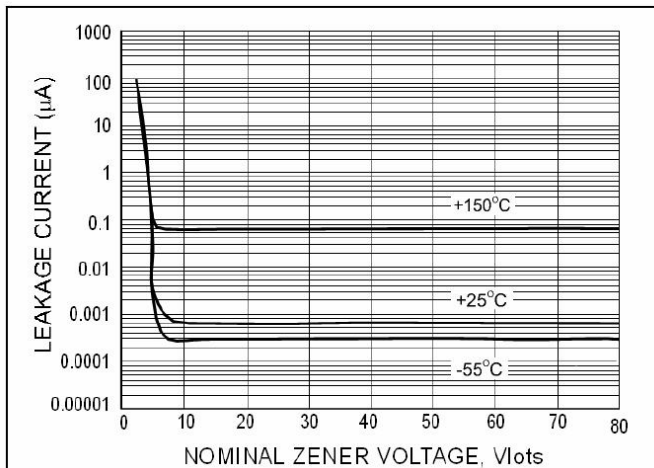


Fig.7 TYPICAL LEAKAGE CURRENT