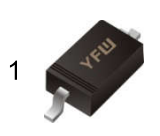


Small-Signal Zener Diodes

FEATURES

- ◆Case: SOD-123
- ◆Epoxy meets UL-94 V-0 flammability rating and halogen free
- ◆Moisture Sensitivity Level 1
- ◆High temperature soldering guaranteed 260c/10seconds at terminals
- ◆Tolerance approximately±5%.

Pinning

1.Cathode	2.Anode
 	
SOD-123	

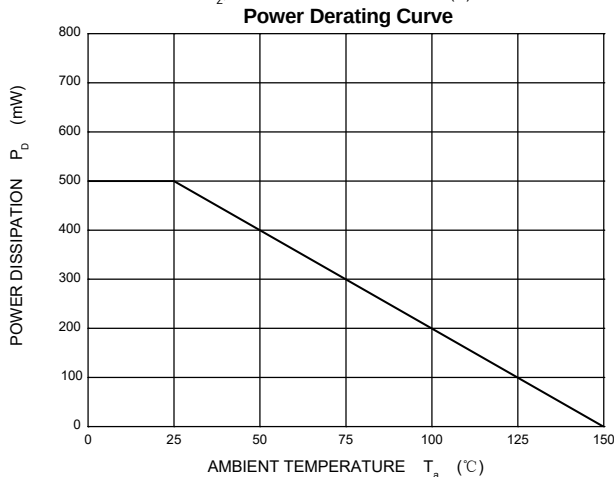
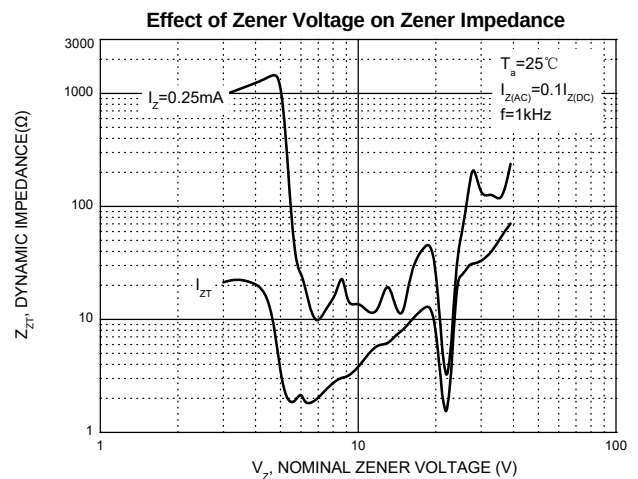
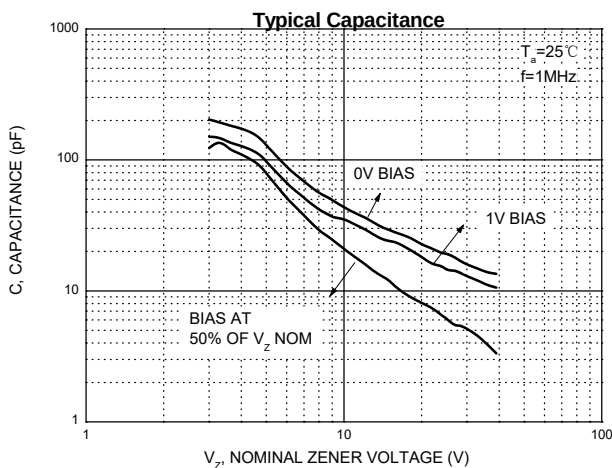
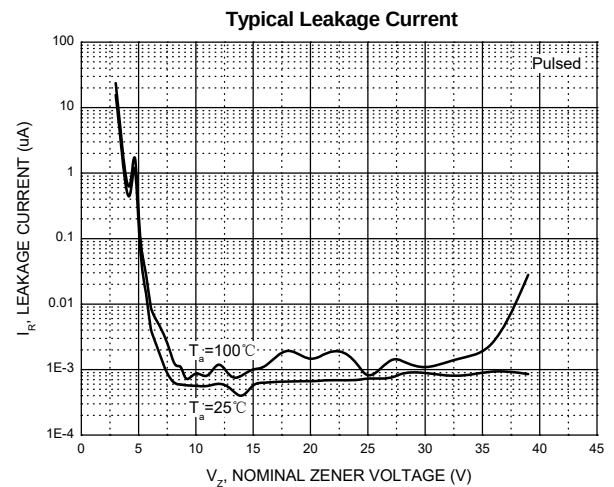
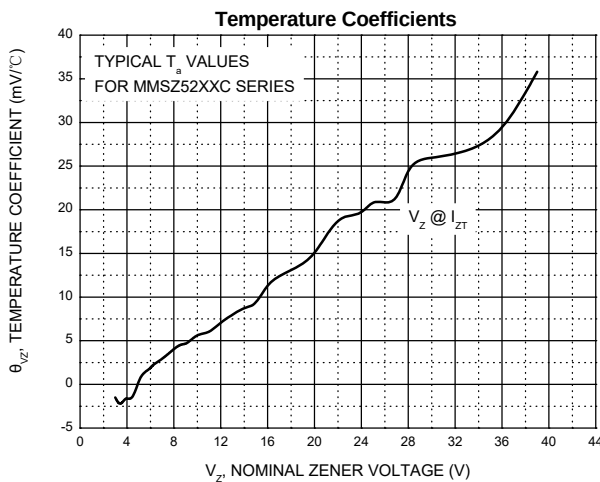
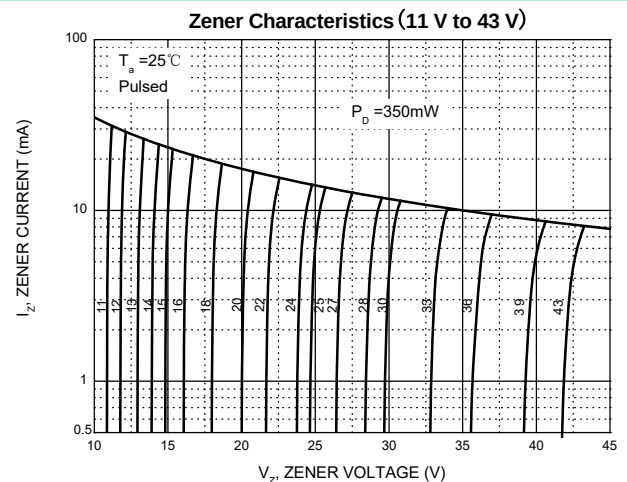
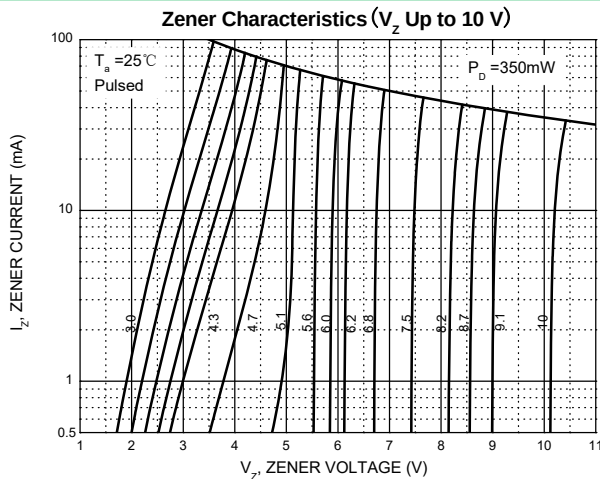
Absolute Maximum Ratings (Ta=25°C unless otherwise noted)

Parameter	Symbol	Value	Unit
Forward Voltage at @I _F =10mA	V_F	0.9	V
Power Dissipation	P_D	500	mW
Thermal Resistance Junction to Ambient Air	R_{θJA}	250	°C/W
Operating Temperature Range	T_J	-55~ +150	°C
Storage Temperature Range	T_{STG}	-55~ +150	°C

Note: 1. Device mounted on an FR4 Printed-Circuit Board (PCB), single-side copper, tin-plated and standard footprint.

Electrical Characteristics (T_J=25°C, unless otherwise noted)

Type Number	Code	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current	
		V _Z @I _{ZT}			I _{ZT}	Z _{zT} @I _{ZT}	Z _{zK} @I _{ZK}	I _{ZK}	I _R	V _R
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	uA	V
MMSZ5221C	2C1	2.4	2.35	2.45	20	30	1200	0.25	100	1.0
MMSZ5223C	2C3	2.7	2.65	2.75	20	30	1300	0.25	75	1.0
MMSZ5225C	2C5	3.0	2.94	3.06	20	30	1600	0.25	50	1.0
MMSZ5226C	2G1	3.3	3.23	3.37	20	28	1600	0.25	25	1.0
MMSZ5227C	2G2	3.6	3.53	3.67	20	24	1700	0.25	15	1.0
MMSZ5228C	2G3	3.9	3.82	3.98	20	23	1900	0.25	10	1.0
MMSZ5229C	2G4	4.3	4.21	4.39	20	22	2000	0.25	5	1.0
MMSZ5230C	2G5	4.7	4.61	4.79	20	19	1900	0.25	5	2.0
MMSZ5231C	2E1	5.1	5.00	5.20	20	17	1600	0.25	5	2.0
MMSZ5232C	2E2	5.6	5.49	5.71	20	11	1600	0.25	5	3.0
MMSZ5233C	2E3	6.0	5.88	6.12	20	7	1600	0.25	5	3.5
MMSZ5234C	2E4	6.2	6.08	6.32	20	7	1000	0.25	5	4.0
MMSZ5235C	2E5	6.8	6.66	6.94	20	5	750	0.25	3	5.0
MMSZ5236C	2F1	7.5	7.35	7.65	20	6	500	0.25	3	6.0
MMSZ5237C	2F2	8.2	8.04	8.36	20	8	500	0.25	3	6.5
MMSZ5238C	2F3	8.7	8.53	8.87	20	8	600	0.25	3	6.5
MMSZ5239C	2F4	9.1	8.92	9.28	20	10	600	0.25	3	7.0
MMSZ5240C	2F5	10	9.80	10.20	20	17	600	0.25	3	8.0
MMSZ5241C	2H1	11	10.78	11.22	20	22	600	0.25	2.0	8.4
MMSZ5242C	2H2	12	11.76	12.24	20	30	600	0.25	1.0	9.1
MMSZ5243C	2H3	13	12.74	13.26	9.5	13	600	0.25	0.5	9.9
MMSZ5244C	2H4	14	13.72	14.28	9.0	15	600	0.25	0.1	10
MMSZ5245C	2H5	15	14.70	15.30	8.5	16	600	0.25	0.1	11
MMSZ5246C	2J1	16	15.68	16.32	7.8	17	600	0.25	0.1	12
MMSZ5248C	2J3	18	17.64	18.36	7.0	21	600	0.25	0.1	14
MMSZ5250C	2J5	20	19.60	20.40	6.2	25	600	0.25	0.1	15
MMSZ5251C	2K1	22	21.56	22.44	5.6	29	600	0.25	0.1	17
MMSZ5252C	2K2	24	23.52	24.48	5.2	33	600	0.25	0.1	18
MMSZ5253C	2K3	25	24.50	25.50	5.0	35	600	0.25	0.1	19
MMSZ5254C	2K4	27	26.46	27.54	5.0	41	600	0.25	0.1	21
MMSZ5255C	2K5	28	27.44	28.56	4.5	44	600	0.25	0.1	21
MMSZ5256C	2M1	30	29.40	30.60	4.2	49	600	0.25	0.1	23
MMSZ5257C	2M2	33	32.34	33.66	3.8	58	700	0.25	0.1	25
MMSZ5258C	2M3	36	35.28	36.72	3.4	70	700	0.25	0.1	27
MMSZ5259C	2M4	39	38.22	39.78	3.2	80	800	0.25	0.1	30
MMSZ5260C	2M5	43	42.14	43.86	3.0	90	900	0.25	0.1	33



Ordering information

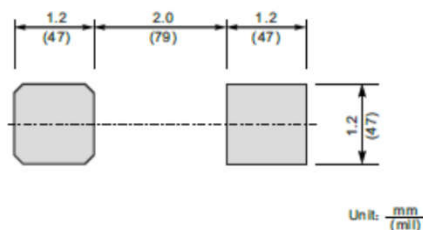
Package	Packing Description	Packing Quantity
SOD-123	Tape/Reel, 7" reel	3000PCS/Reel 120000PCS/Carton

Package Dimensions

SOD-123

Dim.	Millimeter(mm)		mil	
	Min.	Max.	Min.	Max.
A	0.9	1.3	35	51
C	0.09	0.22	3.5	8.7
D	1.5	1.8	59	71
E	2.5	2.8	98	110
E1	3.6	3.9	142	154
b	0.5	0.7	20	28
L1	0.25	0.45	10	18
A1	-	0.2	-	8
∠	9°			

The recommended mounting pad size



Disclaimer

The information presented in this document is for reference only. Guangdong Youfeng Microelectronics Co.,Ltd. reserves the right to make changes without notice for the specification of the products displayed herein to improve reliability, function or design or otherwise. The product listed herein is designed to be used with ordinary electronic equipment or devices, and not designed to be used with equipment or devices which require high level of reliability and the malfunction of which would directly endanger human life (such as medical instruments, transportation equipment, aerospace machinery, nuclear-reactor controllers, fuel controllers and other safety devices), YFW or anyone on its behalf, assumes no responsibility or liability for any damages resulting from such improper use of sale. This publication supersedes & replaces all information previously supplied. For additional information, please visit our website <https://www.yfwdiode.com>, or consult YFW sales office for further assistance.