

Zener Diodes SOD-523F

MM5ZS-B Series

MERITEK

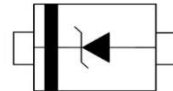
FEATURE

- Zener Voltage Range: 2.2V to 39V
- Power Dissipation: 200mW
- High Reliability
- Ideally Suited for Automated Assembly Processes
- Application: Power Management Systems, Voltage Regulation



APPLICATION

- Case: SOD-523F, Molded Plastic
- Terminals: Solderable per MIL-STD-750, Method 2026



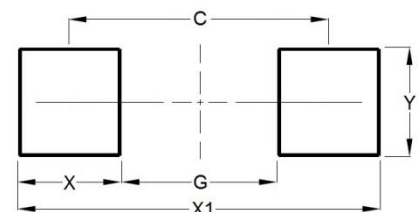
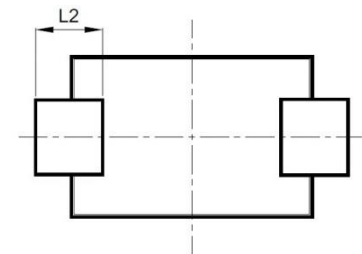
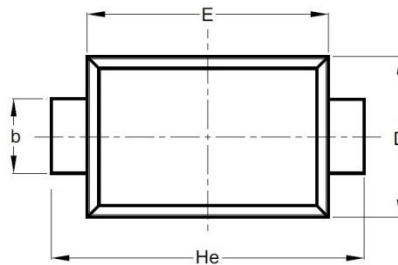
ABSOLUTE MAXIMUM RATINGS

Parameter	Symbols	Value	Unit
Power Dissipation	P_D	200	mW
Forward Voltage at $I_F=10mA$	V_F	0.9	V
Junction Temperature Range	T_J	150	$^{\circ}C$
Storage Temperature Range	T_{STG}	-55~+150	$^{\circ}C$

Note: $T_A = 25^{\circ}C$ unless otherwise noted

DIMENSIONS AND RECOMMENDED LAND PATTERN

Item	Min (mm)	Max (mm)
A	0.55	0.65
b	0.25	0.35
c	0.05	0.15
D	0.75	0.85
E	1.15	1.25
He	1.50	1.70
L2	0.20	0.20
C	1.47	1.47
G	0.80	0.80
X	0.53	0.53
X1	2.00	2.00
Y	0.50	0.50



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ELECTRICAL CHARACTERISTICS

Part Number	Nominal Zener Voltage				Max Zener Impedance		Max Reverse Leakage Current	
	V_Z at I_{ZT}			I_{ZT}	Z_{ZT} at I_{ZT}	I_{ZT}	I_R at V_R	
	Nom (V)	Min (V)	Max (V)	(mA)	(Ω)	(mA)	(μ A)	(V)
MM5ZS2V2B	2.2	2.10	2.40	5	100	5	120	0.7
MM5ZS2V4B	2.4	2.30	2.65	5	100	5	120	1.0
MM5ZS2V7B	2.7	2.65	2.95	5	110	5	120	1.0
MM5ZS3V0B	3.0	2.95	3.25	5	120	5	50	1.0
MM5ZS3V3B	3.3	3.25	3.55	5	120	5	20	1.0
MM5ZS3V6B	3.6	3.60	3.85	5	100	5	10	1.0
MM5ZS3V9B	3.9	3.89	4.16	5	100	5	5.0	1.0
MM5ZS4V3B	4.3	4.17	4.43	5	100	5	5.0	1.0
MM5ZS4V7B	4.7	4.55	4.75	5	100	5	2.0	1.0
MM5ZS5V1B	5.1	4.98	5.20	5	80	5	2.0	1.5
MM5ZS5V6B	5.6	5.49	5.73	5	60	5	1.0	2.5
MM5ZS6V2B	6.2	6.06	6.33	5	60	5	1.0	3.0
MM5ZS6V8B	6.8	6.65	6.93	5	40	5	0.5	3.5
MM5ZS7V5B	7.5	7.28	7.60	5	30	5	0.5	4.0
MM5ZS8V2B	8.2	8.02	8.36	5	30	5	0.5	5.0
MM5ZS9V1B	9.1	8.85	9.23	5	30	5	0.5	6.0
MM5ZS10B	10	9.77	10.21	5	30	5	0.1	7.0
MM5ZS11B	11	10.76	11.22	5	30	5	0.1	8.0
MM5ZS12B	12	11.74	12.24	5	30	5	0.1	9.0
MM5ZS13B	13	12.91	13.49	5	37	5	0.1	10
MM5ZS15B	15	14.34	14.98	5	42	5	0.1	11
MM5ZS16B	16	15.85	16.51	5	50	5	0.1	12
MM5ZS18B	18	17.56	18.35	5	65	5	0.1	13
MM5ZS20B	20	19.52	20.39	5	85	5	0.1	15
MM5ZS22B	22	21.54	22.47	5	100	5	0.1	17
MM5ZS24B	24	23.72	24.78	2	120	5	0.1	19
MM5ZS27B	27	26.19	27.53	2	150	5	0.1	21
MM5ZS30B	30	29.19	30.69	2	200	5	0.1	23
MM5ZS33B	33	32.15	33.79	2	250	5	0.1	25
MM5ZS36B	36	35.07	36.87	2	300	5	0.1	27
MM5ZS39B	39	37.00	41.00	2	100	5	2.0	30

Note:

1. $T_A = 25^\circ\text{C}$ unless otherwise noted
2. The Zener Voltage (V_Z) is tested with pulses (20ms).
3. Z_{ZT} is measured at I_Z by given a very small AC current signal



*Specifications subject to change without notice.