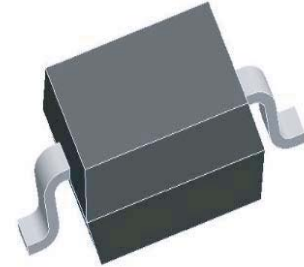


SOD-323 Plastic-Encapsulate Zener Diode

Features

- Low Zener Impedance
- Power Dissipation of 300mW
- High Stability and High Reliability
- P/N suffix V means Halogen-free
- P/N suffix V means AEC-Q101 qualified, e.g:MM3Z2V4V

SOD-323



Mechanical Data

- SOD-323 Small Outline Plastic Package
- Polarity: Color band denotes cathode end
- Mounting Position: Any

Maximum Ratings & Thermal Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Parameters	Symbol	Value	Unit
Power Dissipation	Pd	300 ¹⁾	mW
Forward Voltage @IF=10mA	Vf	0.9 ²⁾	V
Storage temperature range	Ts	-65-+150	°C

- 1) Device mounted on ceramic PCB: 7.6mm x 9.4mm x 0.87mm with pad areas 25mm²
- 2) Short duration test pulse used to minimize self-heating effect
- 3) f=1KHz

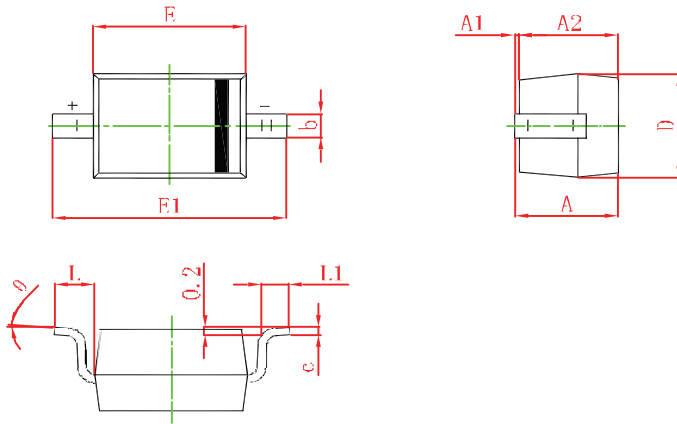
Electrical Characteristics (Ratings at 25°C ambient temperature unless otherwise specified.)

Device	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current	
		Vz@Izt			Izt	Zzt @Izt	Zzk @Izk	Izk	IR	VR
		Nom(V)	Min(V)	Max(V)						
MM3Z 2V4	1C	2.4	2.2	2.6	5	100	600	1.0	120	1.0
MM3Z 2V7	1D	2.7	2.5	2.9	5	100	600	1.0	120	1.0
MM3Z 3V0	1E	3.0	2.8	3.2	5	95	600	1.0	50	1.0
MM3Z 3V3	1F	3.3	3.1	3.5	5	95	600	1.0	20	1.0
MM3Z 3V6	1H	3.6	3.4	3.8	5	90	600	1.0	10	1.0
MM3Z 3V9	1J	3.9	3.7	4.1	5	90	600	1.0	5	1.0
MM3Z 4V3	1K	4.3	4.0	4.6	5	90	600	1.0	5	1.0
MM3Z 4V7	1M	4.7	4.4	5.0	5	80	500	1.0	2	1.0
MM3Z 5V1	1N	5.1	4.8	5.4	5	60	480	1.0	2	1.5
MM3Z 5V6	1P	5.6	5.2	6.0	5	40	400	1.0	1	2.5
MM3Z 6V2	1R	6.2	5.8	6.6	5	50	150	1.0	1	3.0
MM3Z 6V8	1X	6.8	6.4	7.2	5	15	150	1.0	0.5	3.5
MM3Z 7V5	1Y	7.5	7.0	7.9	5	15	50	1.0	0.5	4.0
MM3Z 8V2	1Z	8.2	7.7	8.7	5	15	50	1.0	0.5	5.0
MM3Z 9V1	2A	9.1	8.5	9.6	5	15	50	1.0	0.5	6.0
MM3Z 10	2B	10	9.4	10.6	5	20	70	1.0	0.1	7.0
MM3Z 11	2C	11	10.4	11.6	5	20	70	1.0	0.1	8.0
MM3Z 12	2D	12	11.4	12.7	5	25	90	1.0	0.1	9.0
MM3Z 13	2E	13	12.4	14.1	5	30	110	1.0	0.1	10

Device	Marking	Zener Voltage Range				Maximum Zener Impedance			Maximum Reverse Current	
		Vz@Izt			Izt	Zzt @Izt	Zzk @Izk	Izk	IR	VR
		Nom(V)	Min(V)	Max(V)	mA	Ω		mA	μ A	V
MM3Z 15	2F	15	13.8	15.6	5	40	110	1.0	0.1	11
MM3Z 16	2H	16	15.3	17.1	5	40	170	1.0	0.1	12
MM3Z 18	2J	18	16.8	19.1	5	45	170	1.0	0.1	13
MM3Z 20	2K	20	18.8	21.2	5	50	220	1.0	0.1	15
MM3Z 22	2M	22	20.8	23.3	5	55	220	1.0	0.1	17
MM3Z 24	2N	24	22.8	25.6	5	60	220	1.0	0.1	19
MM3Z 27	2P	27	25.1	28.9	5	70	220	1.0	0.1	21
MM3Z 30	2R	30	28.0	32.0	5	80	220	1.0	0.1	23
MM3Z 33	2X	33	31.0	35.0	5	80	220	1.0	0.1	25
MM3Z 36	2Y	36	34.0	38.0	5	90	220	1.0	0.1	27
MM3Z 39	2Z	39	37.0	41.0	2.5	130	350	0.5	2.0	30
MM3Z 43	3A	43	40.0	46.0	2.5	100	500	0.5	2.0	33
MM3Z 47	3B	47	44.0	50.0	2.5	100	600	0.5	2.0	36
MM3Z 51	3C	51	48.0	54.0	2.5	180	700	0.5	1.0	39
MM3Z 56	3D	56	52.0	60.0	2.5	180	700	0.5	1.0	43
MM3Z 62	3E	62	58.0	66.0	2.5	200	1000	0.5	0.2	47
MM3Z 68	3F	68	64.0	72.0	2.5	250	1000	0.5	0.2	52
MM3Z 75	3H	75	70.0	79.0	2.5	300	1000	0.5	0.2	57
MM3Z 82	3J	82	77.0	87.0	2.5	300	1500	0.25	0.2	63
MM3Z 91	3K	91	85.0	96.0	1	700	2000	0.1	0.2	69
MM3Z 100	3M	100	94.0	106	1	700	5000	0.1	0.2	76

SOD-323 PACKAGE OUTLINE

Plastic surface mounted package



Symbol	Min.(mm)	Max.(mm)
A		1.000
A1	0.000	0.100
A2	0.800	0.900
b	0.250	0.350
c	0.080	0.150
D	1.200	1.400
E	1.600	1.800
E1	2.500	2.700
L	0.475REF	
L1	0.250	0.400
θ	0°	8°

PACKAGING OF DIODE AND BRIDGE RECTIFIERS

REEL PACK

PACKAGE	PACKING CODE	EA PER REEL	EA PER INNER BOX	COMPONENT SPACE (mm)	TAPE SPACE (mm)	REEL DIA (mm)	CARTON SIZE (mm)	EA PER CARTON	GROSS WEIGHT(Kg)
SOD-323	-T	3,000	15,000	---	---	178	390*205*31	120,000	5.17

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