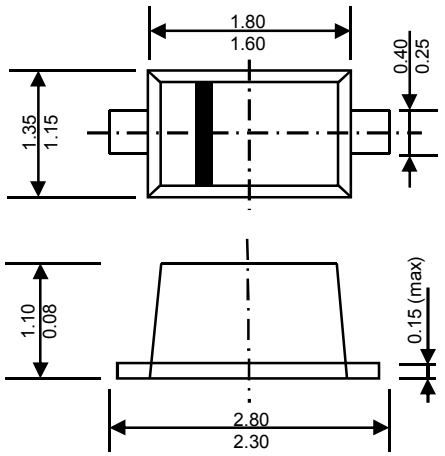
MM3Z2V2B - MM3Z39B

ZENER DIODES

V_Z : 2.2 to 39 V

P_D : 300 mW

SOD-323



Dimensions in millimeters

FEATURES :

* Total power dissipation : max. 300 mW
* Small plastic package suitable for surface mount design
* High reliability
* Pb / RoHS Free

MECHANICAL DATA :

Case: SOD-323 Plastic Package
Weight: approx. 0.004g

Maximum Ratings and Thermal Characteristics (Ta = 25 °C)

Parameter	Symbol	Value	Unit
Power Dissipation	P_D	300	mW
Forward Voltage at V_F = 10 mA	V_F	0.9	V
Thermal Resistance Junction to Ambient Air	$R_{\Theta JA}$	625	°C/W
Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS

Type No.	Marking	Zener Voltage (1)			Test Current	Dynamic Impedance (2)	Test Current	Reverse Leakage Current	
		V_Z @ I_{ZT} (V)			I_{ZT}	Z_Z @ I_Z	I_Z	I_R @ V_R	
		Min.	Nom.	Max.	(mA)	(Ω)	(mA)	(μA)	(V)
MM3Z2V2B	**MF**	2.08	2.2	2.33	5	100	5	120	0.7
MM3Z2V4B	**7C**	2.30	2.4	2.65	5	100	5	120	1.0
MM3Z2V7B	**7D**	2.65	2.7	2.95	5	110	5	120	1.0
MM3Z3V0B	**7E**	2.95	3.0	3.25	5	120	5	50	1.0
MM3Z3V3B	**7F**	3.25	3.3	3.55	5	120	5	20	1.0
MM3Z3V6B	**7H**	3.60	3.6	3.845	5	100	5	10	1.0
MM3Z3V9B	**7J**	3.89	3.9	4.16	5	100	5	5	1.0
MM3Z4V3B	**7K**	4.17	4.3	4.43	5	100	5	5	1.0
MM3Z4V7B	**7M**	4.55	4.7	4.75	5	100	5	2	1.0
MM3Z5V1B	**7N**	4.98	5.1	5.20	5	80	5	2	1.5
MM3Z5V6B	**7P**	5.49	5.6	5.73	5	60	5	1	2.5
MM3Z6V2B	**7R**	6.06	6.2	6.33	5	60	5	1	3.0
MM3Z6V8B	**7X**	6.65	6.8	6.93	5	40	5	0.5	3.5
MM3Z7V5B	**7Y**	7.28	7.5	7.60	5	30	5	0.5	4.0
MM3Z8V2B	**7Z**	8.02	8.2	8.36	5	30	5	0.5	5.0
MM3Z9V1B	**8A**	8.85	9.1	9.23	5	30	5	0.5	6.0
MM3Z10B	**8B**	9.77	10	10.21	5	30	5	0.1	7.0
MM3Z11B	**8C**	10.76	11	11.22	5	30	5	0.1	8.0
MM3Z12B	**8D**	11.74	12	12.24	5	30	5	0.1	9.0
MM3Z13B	**8E**	12.91	13	13.49	5	37	5	0.1	10
MM3Z15B	**8F**	14.34	15	14.98	5	42	5	0.1	11
MM3Z16B	**8H**	15.85	16	16.51	5	50	5	0.1	12
MM3Z18B	**8J**	17.56	18	18.35	5	65	5	0.1	13
MM3Z20B	**8K**	19.52	20	20.39	5	85	5	0.1	15
MM3Z22B	**8M**	21.54	22	22.47	5	100	5	0.1	17
MM3Z24B	**8N**	23.72	24	24.78	5	120	5	0.1	19
MM3Z27B	**8P**	26.19	27	27.53	5	150	2	0.1	21
MM3Z30B	**8R**	29.19	30	30.69	5	200	2	0.1	23
MM3Z33B	**8X**	32.15	33	33.79	5	250	2	0.1	25
MM3Z36B	**8Y**	35.07	36	36.87	5	300	2	0.1	27
MM3Z39B	**8Z**	37.00	39	41.00	5	100	2	2.0	30

Notes :

(1) V_Z is tested with pulses (20 ms).

(2) Z_Z is measured at I_Z by given a very small A.C. current signal.