0.2W SILICON PLANAR ZENER DIODES

FEATURES

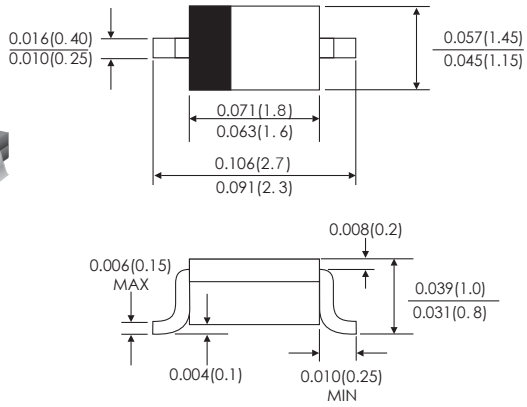
- Total power dissipation:200 mW
- Small plastic package suitable for surface mounted design
- Tolerance approximat ±5%
- High temperature soldering guaranteed:260℃/10 seconds at terminals
- Component in accordance to RoHS 2011/65/EU



MECHANICAL DATA

- Case: SOD-323 plastic case

SOD-323



Dimensions in inches and (millimeters)

Absolute Maximum Ratings (Ta = 25 ℃)

Symbol	Parameter	Value	Units
P_D	Power Dissipation	200	mW
T_J	Junction Temperature	150	℃
T_{STG}	Storage Temperature	−55 to +150	℃
I_{ZM}	Maximum Regulator Current	P_D/V_Z	mA

Electrical Characteristics (Ta = 25 ℃)

Type Number	Device Marking	Vz (V) *1			I_{ZT}	$Z_{ZT}@I_{ZT}$	$Z_{ZK}@I_{ZK}$	Izk	I_R	V_R
		Nom(V)	Min(V)	Max(V)	mA	Ω		(mA)	(uA)	(V)
MM3Z2V0	WY	**2.0**	**1.80**	**2.15**	5	100	600	1.0	50	1.0
MM3Z2V4	OO	2.4	2.28	2.52	5	100	600	1.0	50	1.0
MM3Z2V7	O1	2.7	2.57	2.84	5	100	600	1.0	20	1.0
MM3Z3V0	O2	3.0	2.85	3.15	5	95	600	1.0	10	1.0
MM3Z3V3	O5	3.3	3.14	3.47	5	95	600	1.0	5	1.0
MM3Z3V6	O6	3.6	3.42	3.78	5	90	600	1.0	5	1.0
MM3Z3V9	O7	3.9	3.71	4.10	5	90	600	1.0	3	1.0
MM3Z4V3	O8	4.3	4.09	4.52	5	90	600	1.0	3	1.0
MM3Z4V7	O9	4.7	4.47	4.94	5	80	500	1.0	3	2.0
MM3Z5V1	OA	5.1	4.85	5.36	5	60	480	1.0	2	2.0
MM3Z5V6	OC	5.6	5.32	5.88	5	40	400	1.0	1	2.0
MM3Z6V2	OE	6.2	5.89	6.51	5	10	150	1.0	3	4.0

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ELECTRICAL CHARACTERISTICS (TA=25°C)

Type	Marking Code	Zener Voltage[1]			Zener Impedance				Leakage Current	
		V_{ZT}(V)			Z_{ZT}	I_{ZT}	Z_{ZK}	I_{ZK}	I_R(μA)	V_R
		Min.	Typ.	Max.	(Ω)	(mA)	(Ω)	(mA)	Max.	(V)
MM3Z6V8	WB	6.46	6.8	7.14	15	5	80	1	2	4.0
MM3Z7V5	WC	7.13	7.5	7.88	15	5	50	1	1	5.0
MM3Z8V2	WD	7.79	8.2	8.61	15	5	50	1	0.7	5.0
MM3Z9V1	WE	8.65	9.1	9.56	15	5	100	1	0.5	6.0
MM3Z10	WF	9.50	10.0	10.50	20	5	150	1	0.2	7.0
MM3Z11	WG	10.45	11.0	11.55	20	5	150	1	0.1	8.0
MM3Z12	WH	11.40	12.0	12.60	25	5	150	1	0.1	8.0
MM3Z13	WI	12.35	13.0	13.65	30	5	170	1	0.1	8.0
MM3Z15	WJ	14.25	15.0	15.75	30	5	200	1	0.1	10.5
MM3Z16	WK	15.20	16.0	16.80	40	5	200	1	0.1	11.2
MM3Z18	WL	17.10	18.0	18.90	45	5	225	1	0.1	12.6
MM3Z20	WM	19.00	20.0	21.00	55	5	225	1	0.1	14.0
MM3Z22	WN	20.90	22.0	23.10	55	5	250	1	0.1	15.4
MM3Z24	WO	22.80	24.0	25.20	70	5	250	1	0.1	16.8
MM3Z27	WP	25.65	27.0	28.35	80	2	300	0.5	0.1	18.9
MM3Z30	WQ	28.50	30.0	31.50	80	2	300	0.5	0.1	21.0
MM3Z33	WR	31.35	33.0	34.65	80	2	325	0.5	0.1	23.1
MM3Z36	WS	34.20	36.0	37.80	90	2	350	0.5	0.1	25.2
MM3Z39	WT	37.05	39.0	40.95	130	2.0	350	0.5	0.1	27.3
MM3Z43	WU	40.85	43.0	45.15	130	2.0	350	0.5	0.1	29.4
MM3Z47	WV	44.65	47.0	49.35	170	2.0	1000	0.25	0.1	36
MM3Z51	X1	48.45	51.0	53.55	180	2.0	1300	0.25	0.1	39
MM3Z56	X2	53.20	56.0	58.80	200	2.0	1400	0.25	0.1	43
MM3Z62	X3	58.90	62.0	65.10	225	2.0	1400	0.25	0.1	47
MM3Z68	X4	64.60	68.0	71.40	240	2.0	1600	0.25	0.1	52
MM3Z75	X5	71.25	75.0	78.75	265	2.0	1700	0.25	0.1	56

[1] Tested with pulses tp = 10 ms.