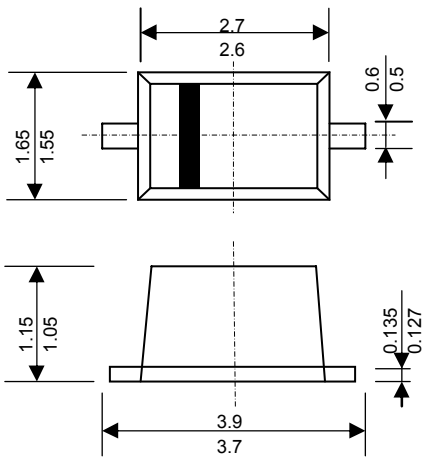
MM1Z2V4 - MM1Z75

ZENER DIODES

V_Z : 2.4 to 75 V
P_D : 500 mW

SOD-123



Dimensions in millimeters

FEATURES :

* Total Power Dissipation 500 mW
* Wide Zener Reverse Voltage Range 2.4 V to 75 V
* Package Designed for Optimal Automated Board Assembly
* Small Package Size for High Density Applications
* Pb / RoHS Free

MECHANICAL DATA :

* Case : SOD-123
* Weight : 0.01 gram (approximately)

Maximum Ratings and Thermal Characteristics

Rating at 25 °C ambient temperature unless otherwise specified

Parameter	Symbol	Value	Unit
Total Power Dissipation	Ptot	500	mW
Maximum Forward Voltage at I_F = 10 mA	V_F	0.9	V
Thermal Resistance Junction to Ambient Air	$R_{\Theta JA}$	0.3	K/mW
Junction Temperature Range	T_J	150	°C
Storage Temperature Range	T_{STG}	-55 to + 150	°C

ELECTRICAL CHARACTERISTICS

TYPE NO.	Marking	Zener Voltage(2) V_Z @ I_{ZT} (V)			Test Current I_{ZT}	Dynamic Impedance(3) Z_{ZT} @ I_{ZT}		Max. Reverse Leakage Current I_R @ V_R		Temp. Coefficient of Zener Voltage TK_{VZ} (%/K)	
		Min.	Nom.	Max.	(mA)	(Ω)	(mA)	(μA)	(V)	Min.	Max.
MM1Z2V4	**4C**	2.28	2.4	2.56	5	100	5	120	1.0	-0.09	-0.06
MM1Z2V7	**4D**	2.5	2.7	2.9	5	110	5	120	1.0	-0.09	-0.06
MM1Z3V0	**4E**	2.8	3.0	3.2	5	120	5	50	1.0	-0.08	-0.05
MM1Z3V3	**4F**	3.1	3.3	3.5	5	130	5	20	1.0	-0.08	-0.05
MM1Z3V6	**4H**	3.4	3.6	3.8	5	130	5	10	1.0	-0.08	-0.05
MM1Z3V9	**4J**	3.7	3.9	4.1	5	130	5	5	1.0	-0.08	-0.05
MM1Z4V3	**4K**	4.0	4.3	4.6	5	130	5	5	1.0	-0.06	-0.03
MM1Z4V7	**4M**	4.4	4.7	5.0	5	130	5	2	1.0	-0.05	+0.02
MM1Z5V1	**4N**	4.8	5.1	5.4	5	130	5	2	1.5	-0.02	+0.02
MM1Z5V6	**4P**	5.2	5.6	6.0	5	80	5	1	2.5	-0.05	+0.05
MM1Z6V2	**4R**	5.8	6.2	6.6	5	50	5	1	3.0	0.03	0.06
MM1Z6V8	**4X**	6.4	6.8	7.2	5	30	5	0.5	3.5	0.03	0.07
MM1Z7V5	**4Y**	7.0	7.5	7.9	5	30	5	0.5	4.0	0.03	0.07
MM1Z8V2	**4Z**	7.7	8.2	8.7	5	30	5	0.5	5.0	0.03	0.08
MM1Z9V1	**5A**	8.5	9.1	9.6	5	30	5	0.5	6.0	0.03	0.09
MM1Z10	**5B**	9.4	10	10.6	5	30	5	0.1	7.0	0.03	0.1
MM1Z11	**5C**	10.4	11	11.6	5	30	5	0.1	8.0	0.03	0.11
MM1Z12	**5D**	11.4	12	12.7	5	35	5	0.1	9.0	0.03	0.11
MM1Z13	**5E**	12.4	13	14.1	5	35	5	0.1	10	0.03	0.11
MM1Z15	**5F**	13.8	15	15.6	5	40	5	0.1	11	0.03	0.11
MM1Z16	**5H**	15.3	16	17.1	5	40	5	0.1	12	0.03	0.11
MM1Z18	**5J**	16.8	18	19.1	5	45	5	0.1	13	0.03	0.11
MM1Z20	**5K**	18.8	20	21.2	5	50	5	0.1	15	0.03	0.11
MM1Z22	**5M**	20.8	22	23.3	5	55	5	0.1	17	0.04	0.12
MM1Z24	**5N**	22.8	24	25.6	5	60	5	0.1	19	0.04	0.12
MM1Z27	**5P**	25.1	27	28.9	5	70	2	0.1	21	0.04	0.12
MM1Z30	**5R**	28.0	30	32.0	5	80	2	0.1	23	0.04	0.12
MM1Z33	**5X**	31.0	33	35.0	5	80	2	0.1	25	0.04	0.12
MM1Z36	**5Y**	34.0	36	38.0	5	90	2	0.1	27	0.04	0.12
MM1Z39	**5Z**	37.0	39	41.0	2.5	100	2	2	30	0.04	0.12
MM1Z43	**6A**	40.0	43	46.0	2.5	130	2	2	33	0.04	0.12
MM1Z47	**6B**	44.0	47	50.0	2.5	150	2	2	36	0.04	0.12
MM1Z51	**6C**	48.0	51	54.0	2.5	180	2	1	39	0.04	0.12
MM1Z56	**6D**	52.0	56	60.0	2.5	180	2	1	43	0.04	0.12
MM1Z62	**6E**	58.0	62	66.0	2.5	200	2	0.2	47	0.04	0.12
MM1Z68	**6F**	64.0	68	72.0	2.5	250	2	0.2	52	0.04	0.12
MM1Z75	**6H**	70.0	75	79.0	2.5	300	2	0.2	57	0.04	0.12

Notes :

(1) The type number shown have a standard tolerance of±5% on the nominal Zener Voltage.

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

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

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SZ256I SZ5562 15HCB SZ457F 1N4746A 1SMA4734A 30KP400CA SK33S SMAZ5V6 SMBJ5385B 1N5954B 2EZ4.3D5 MZ5954A 1N5339B MM3Z36B MMBZ5247B SMBJ5377B SZ3562 SZ6582 BZG05C3V3 20HCC 30KP400A FR606 HVR520 SZ558C SZ2568 2EZ8.2D5 30KP170 SZ15B2 SZ15B0