

SOD-123 DEVICES (continued)

Zener Diodes (continued)

Cathode = Notch ($V_F = 0.9$ V Max. @ $I_F = 10$ mA for all types) continued

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted ⁽²⁴⁾ , ($V_F = 0.9$ V Max. @ $I_F = 10$ mA for all types)						
Type Number	Marking	Zener Voltage V_Z @ $I_{ZT} = 50$ μA Volts ⁽²⁴⁾ (25)			Max Reverse Leakage Current I_R @ V_R μA	Test Voltage V_R Volts
		Nom	Min	Max		
MMSZ4693T1	CY	7.5	7.13	7.88	10	5.7
MMSZ4694T1	CZ	8.2	7.79	8.61	1	6.2
MMSZ4695T1	DC	8.7	8.27	9.14	1	6.6
MMSZ4696T1	DD	9.1	8.65	9.56	1	6.9
MMSZ4697T1	DE	10	9.50	10.50	1	7.6
MMSZ4698T1	DF	11	10.45	11.55	0.05	8.4
MMSZ4699T1	DH	12	11.40	12.60	0.05	9.1
MMSZ4700T1	DJ	13	12.35	13.65	0.05	9.8
MMSZ4701T1	DK	14	13.30	14.70	0.05	10.6
MMSZ4702T1	DM	15	14.25	15.75	0.05	11.4
MMSZ4703T1	DN	16	15.20	16.80	0.05	12.1
MMSZ4704T1	DP	17	16.15	17.85	0.05	12.9
MMSZ4705T1	DT	18	17.10	18.90	0.05	13.6
MMSZ4706T1	DU	19	18.05	19.95	0.05	14.4
MMSZ4707T1	DV	20	19.00	21.00	0.01	15.2
MMSZ4708T1	DA	22	20.90	23.10	0.01	16.7
MMSZ4709T1	DZ	24	22.80	25.20	0.01	18.2
MMSZ4710T1	DY	25	23.75	26.25	0.01	19.00
MMSZ4711T1	EA	27	25.65	28.35	0.01	20.4
MMSZ4712T1	EC	28	26.60	29.40	0.01	21.2
MMSZ4713T1	ED	30	28.50	31.50	0.01	22.8
MMSZ4714T1	EE	33	31.35	34.65	0.01	25.0
MMSZ4715T1	EF	36	34.20	37.80	0.01	27.3
MMSZ4716T1	EH	39	37.05	40.95	0.01	29.6
MMSZ4717T1	EJ	43	40.85	45.15	0.01	32.6

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ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted ⁽²⁵⁾ , ($V_F = 0.9$ V Max. @ $I_F = 10$ mA for all types)										
Type Number	Marking	Zener Voltage V_{Z1} (Volts) @ $I_{ZT1} = 5$ mA (25)(27)			Max Zener Impedance Z_{ZT1} @ $I_{ZT1} = 5$ mA (21) Ω	Max Reverse Leakage Current		Zener Voltage V_{Z2} (Volts) @ $I_{ZT2} = 1$ mA (27)		Max Zener Impedance Z_{ZT2} @ $I_{ZT1} = 1$ mA (21) Ω
		Nom	Min	Max		I_R μA	@ V_R Volts	Min	Max	
MMSZ2V4T1	T1	2.4	2.28	2.52	100	50	1	1.7	2.1	600
MMSZ2V7T1	T2	2.7	2.57	2.84	100	20	1	1.9	2.4	600
MMSZ3V0T1	T3	3.0	2.85	3.15	95	10	1	2.1	2.7	600
MMSZ3V3T1	T4	3.3	3.14	3.47	95	5	1	2.3	2.9	600
MMSZ3V6T1	T5	3.6	3.42	3.78	90	5	1	2.7	3.3	600
MMSZ3V9T1	U1	3.9	3.71	4.10	90	3	1	2.9	3.5	600
MMSZ4V3T1	U2	4.3	4.09	4.52	90	3	1	3.3	4.0	600
MMSZ4V7T1	U3	4.7	4.47	4.94	80	3	2	3.7	4.7	500
MMSZ5V1T1	U4	5.1	4.85	5.36	60	2	2	4.2	5.3	480
MMSZ5V6T1	U5	5.6	5.32	5.88	40	1	2	4.8	6.0	400

⁽²¹⁾ Z_{ZT1} and Z_{ZT2} are measured by dividing the AC voltage drop across the device by the AC current applied.

The specified limits are for $I_{Z(AC)} = 0.1 I_{Z(DC)}$, with the AC frequency = 1 kHz.

⁽²⁴⁾ Nominal zener voltage is measured with the device junction in thermal equilibrium at $T_L = 30^\circ\text{C} \pm 1^\circ\text{C}$.

⁽²⁵⁾ All part numbers shown indicate a V_Z tolerance of $\pm 5\%$.

⁽²⁷⁾ Zener voltage is measured with the zener current applied for $P_W = 1.0$ ms.

See Packaging Information under Technical Data Section for reel size, quantity and ordering information.

See Surface Mount Notes in SMB section.

Devices listed in bold, italic are Motorola preferred devices.