

SOD-123 DEVICES (continued)

Zener Diodes (continued)

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

ELECTRICAL CHARACTERISTICS ($T_A = 25^\circ\text{C}$ unless otherwise noted ⁽²⁴⁾ , ($V_F = 0.9 \text{ V Max. @ } I_F = 10 \text{ mA}$ for all types)									
Type Number	Marking	Zener Voltage $V_Z @ I_{ZT}$ Volts ⁽²⁴⁾⁽²⁵⁾			Test Voltage V_R Volts	Max Zener Impedance ⁽²¹⁾		Max Reverse Leakage Current $I_R @ V_R$ μA	Test Voltage V_R Volts
		Nom	Min	Max		Z_{ZT} $@ I_Z = I_{ZT}$ Ω	Z_{ZK} $@ I_{ZK} = 0.25 \text{ mA}$ Ω		
MMSZ5256BT1	M1	30	28.50	31.50	4.2	49	600	0.1	23
MMSZ5257BT1	M2	33	31.35	34.65	3.8	58	700	0.1	25
MMSZ5258BT1	M3	36	34.20	37.80	3.4	70	700	0.1	27
MMSZ5259BT1	M4	39	37.05	40.95	3.2	80	800	0.1	30
MMSZ5260BT1	M5	43	40.85	45.15	3.0	93	900	0.1	33
MMSZ5261BT1	N1	47	44.65	49.35	2.7	105	1000	0.1	36
MMSZ5262BT1	N2	51	48.45	53.55	2.5	125	1100	0.1	39
MMSZ5263BT1	N3	56	53.20	58.80	2.2	150	1300	0.1	43
MMSZ5264BT1	N4	60	57.00	63.00	2.1	170	1400	0.1	46
MMSZ5265BT1	N5	62	58.90	65.10	2.0	185	1400	0.1	47
MMSZ5266BT1	P1	68	64.60	71.40	1.8	230	1600	0.1	52
MMSZ5267BT1	P2	75	71.25	78.75	1.7	270	1700	0.1	56
MMSZ5268BT1	P3	82	77.90	86.10	1.5	330	2000	0.1	62
MMSZ5269BT1	P4	87	82.65	91.35	1.4	370	2200	0.1	68
MMSZ5270BT1	P5	91	86.45	95.55	1.4	400	2300	0.1	69

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Type Number	Marking	Zener Voltage $V_Z @ I_{ZT} = 50 \mu\text{A}$ Volts ⁽²⁴⁾⁽²⁵⁾			Max Reverse Leakage Current $I_R @ V_R$ μA	Test Voltage V_R Volts
		Nom	Min	Max		
MMSZ4678T1	CC	1.8	1.71	1.89	7.5	1
MMSZ4679T1	CD	2.0	1.90	2.10	5	1
MMSZ4680T1	CE	2.2	2.09	2.31	4	1
MMSZ4681T1	CF	2.4	2.28	2.52	2	1
MMSZ4682T1	CH	2.7	2.57	2.84	1	1
MMSZ4683T1	CJ	3.0	2.85	3.15	0.8	1
MMSZ4684T1	CK	3.3	3.14	3.47	7.5	1.5
MMSZ4685T1	CM	3.6	3.42	3.78	7.5	2
MMSZ4686T1	CN	3.9	3.71	4.10	5	2
MMSZ4687T1	CP	4.3	4.09	4.52	4	2
MMSZ4688T1	CT	4.7	4.47	4.94	10	3
MMSZ4689T1	CU	5.1	4.85	5.36	10	3
MMSZ4690T1	CV	5.6	5.32	5.88	10	4
MMSZ4691T1	CA	6.2	5.89	6.51	10	5
MMSZ4692T1	CX	6.8	6.46	7.14	10	5.1

⁽²¹⁾ Z_{ZT} and Z_{ZK} 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 $T_J = 30^\circ\text{C} \pm 1^\circ\text{C}$.

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

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.