Leiditech

MMSZ5225 thru MMSZ5267

Features

- For surface mounted applications in order to optimize board space
- Low profile space
- Glass passivated chip
- High reliability
- For use in stabilizing and clipping circuits with high power rating
- Component in accordance to RoHS 2002/95/EC and WEEE 2002/96/EC



Mechanical Date

- **Case:** JEDEC SOD-123FL molded plastic body over glass passivated chip
- **Terminals:** Solder plated, solderable per MIL-STD-750 Method 2026
- **Polarity:** types the band by laser denotes the cathode
- **Weight:** 0.017gram

Applications

- Voltage stabilization

Maximum Ratings & Thermal Characteristics

(T_A = 25 °C unless otherwise noted)

Items	Symbol	VALUE	UNIT
Power dissipation	P	500	mW
Typical thermal resistance, junction to ambient(1)	$R_{\theta JA}$	220	°C / W
Typical thermal resistance, junction to lead(1)	$R_{\theta JL}$	35	°C / W
Junction temperature	T_J	150	°C
Storage temperature range	T_{STG}	–55 to +150	°C

Note 1: Mounted on P.C.B. with 0.036 x 0.06" (0.9 x 1.5mm) copper pad areas.

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Electrical Characteristics (T_A =25℃ unless otherwise noted)

DEVICE House No.(2)	Marking Code	Zener Voltage				Zener Impedance			Leakage Current	
		V_Z(Volts)			@I_{ZT}	Z_{ZT}@I_{ZT}	Z_{ZK}@I_{ZK}		I_R@V_R	
		Min	Nom	Max	mA	Ω	Ω	mA	μA	Volts
MMSZ5225	C5	2.85	3.0	3.15	20	30	1600	0.25	50	1.0
MMSZ5226	D1	3.13	3.3	3.47	20	28	1600	0.25	25	1.0
MMSZ5227	D2	3.42	3.6	3.78	20	24	1700	0.25	15	1.0
MMSZ5228	D3	3.70	3.9	4.10	20	23	1900	0.25	10	1.0
MMSZ5229	D4	4.08	4.3	4.52	20	22	2000	0.25	5	1.0
MMSZ5230	D5	4.46	4.7	4.94	20	19	1900	0.25	5	2.0
MMSZ5231	E1	4.84	5.1	5.36	20	17	1600	0.25	5	2.0
MMSZ5232	E2	5.32	5.6	5.88	20	11	1600	0.25	5	3.0
MMSZ5233	E3	5.70	6.0	6.30	20	7	1600	0.25	5	3.5
MMSZ5234	E4	5.89	6.2	6.51	20	7	1000	0.25	5	4.0
MMSZ5235	E5	6.46	6.8	7.14	20	5	750	0.25	3	5.0
MMSZ5236	F1	7.12	7.5	7.88	20	6	500	0.25	3	6.0
MMSZ5237	F2	7.79	8.2	8.61	20	8	500	0.25	3	6.5
MMSZ5238	F3	8.26	8.7	9.14	20	8	600	0.25	3	6.5
MMSZ5239	F4	8.64	9.1	9.56	20	10	600	0.25	3	7.0
MMSZ5240	F5	9.50	10	10.50	20	17	600	0.25	3	8.0
MMSZ5241	H1	10.45	11	11.55	20	22	600	0.25	2	8.4
MMSZ5242	H2	11.40	12	12.60	20	30	600	0.25	1	9.1
MMSZ5243	H3	12.35	13	13.65	9.5	13	600	0.25	0.5	9.9
MMSZ5244	H4	13.30	14	14.70	9.0	15	600	0.25	0.1	10
MMSZ5245	H5	14.25	15	15.75	8.5	16	600	0.25	0.1	11
MMSZ5246	J1	15.20	16	16.80	7.8	17	600	0.25	0.1	12
MMSZ5247	J2	16.15	17	17.85	7.4	19	600	0.25	0.1	13
MMSZ5248	J3	17.10	18	18.90	7.0	21	600	0.25	0.1	14
MMSZ5249	J4	18.05	19	19.95	6.6	23	600	0.25	0.1	14
MMSZ5250	J5	19.00	20	21.00	6.2	25	600	0.25	0.1	15
MMSZ5251	K1	20.90	22	23.10	5.6	29	600	0.25	0.1	17
MMSZ5252	K2	22.80	24	25.20	5.2	33	600	0.25	0.1	18
MMSZ5253	K3	23.75	25	26.25	5.0	35	600	0.25	0.1	19
MMSZ5254	K4	25.65	27	28.35	4.6	41	600	0.25	0.1	21
MMSZ5255	K5	26.60	28	29.40	4.5	44	600	0.25	0.1	21
MMSZ5256	M1	28.50	30	31.50	4.2	49	600	0.25	0.1	23
MMSZ5257	M2	31.35	33	34.65	3.8	58	700	0.25	0.1	25
MMSZ5258	M3	34.20	36	37.80	3.4	70	700	0.25	0.1	27
MMSZ5259	M4	37.05	39	40.95	3.2	80	800	0.25	0.1	30
MMSZ5260	M5	40.85	43	45.15	3.0	93	900	0.25	0.1	33
MMSZ5261	N1	44.65	47	49.35	2.7	105	1000	0.25	0.1	36
MMSZ5262	N2	48.45	51	53.55	2.5	125	1100	0.25	0.1	39
MMSZ5263	N3	53.20	56	58.80	2.2	150	1300	0.25	0.1	43
MMSZ5264	N4	57.00	60	63.00	2.1	170	1400	0.25	0.1	46
MMSZ5265	N5	58.90	62	65.10	2.0	185	1400	0.25	0.1	47
MMSZ5266	P1	64.60	68	71.40	1.8	230	1600	0.25	0.1	52
MMSZ5267	P2	71.25	75	78.75	1.7	270	1700	0.25	0.1	56

Note 2: TOLERANCE AND TYPE NUMBER DESIGNATION

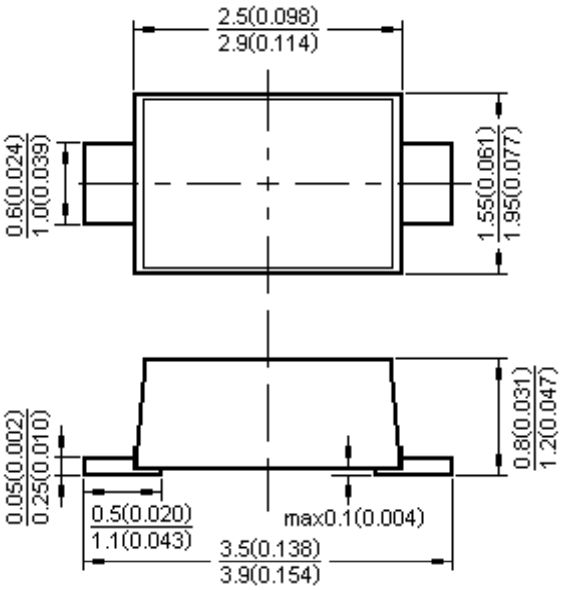
The type numbers listed indicate a tolerance of ±5%. Other Zener voltages andtolerances are available upon request

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Package Outline

SOD-123FL



Dimensions in millimeters and (inches)

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