Glass Passivated Zener

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

RoHS COMPLIANT

SOD-123FL

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	1.0	W
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	℃
Storage temperature range	T_{STG}	–55 to +150	℃

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

Electrical Characteristics (T_A =25℃ unless otherwise noted)

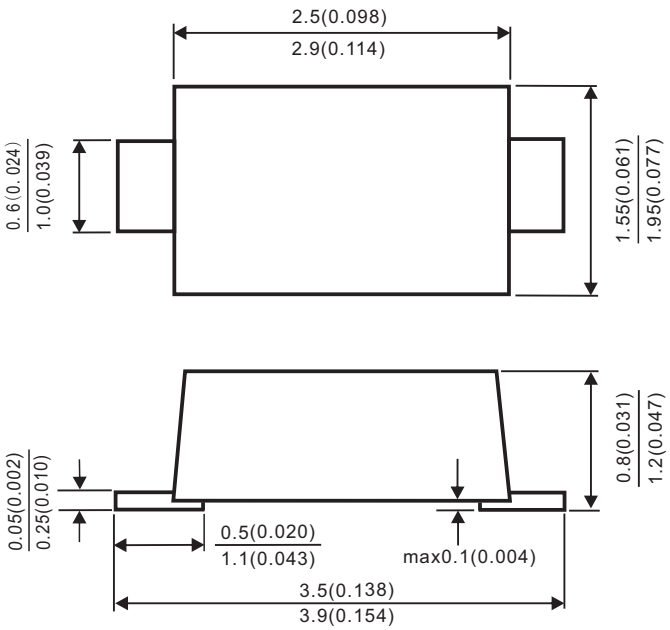
DEVICE House No.(2)	Marking Code	Zener Voltage				Zener Impedance			Leakage Current	
		V_Z(Volts)			@I_{ZT}	Z_{ZT}@I_{ZT}	Z_{ZK}@I_{ZK}		I_R@V_R	
		Min	Nom	Max	mA	Ω	Ω	mA	μA	Volts
PZL4728	3P3	3.13	3.3	3.47	76	10	400	1	100	1
PZL4729	3P6	3.42	3.6	3.78	69	10	400	1	100	1
PZL4730	3P9	3.70	3.9	4.10	64	9	400	1	50	1
PZL4731	4P3	4.08	4.3	4.52	58	9	400	1	10	1
PZL4732	4P7	4.46	4.7	4.94	53	8	500	1	10	1
PZL4733	5P1	4.84	5.1	5.36	49	7	550	1	10	1
PZL4734	5P6	5.32	5.6	5.88	45	5	600	1	10	2
PZL4735	6P2	5.89	6.2	6.51	41	2	700	1	10	3
PZL4736	6P8	6.46	6.8	7.14	37	3.5	700	1	10	4
PZL4737	7P5	7.12	7.5	7.88	34	4	700	0.5	10	5
PZL4738	8P2	7.79	8.2	8.61	31	4.5	700	0.5	10	6
PZL4739	9P1	8.64	9.1	9.56	28	5	700	0.5	10	7
PZL4740	10	9.50	10	10.50	25	7	700	0.25	10	7.6
PZL4741	11	10.45	11	11.55	23	8	700	0.25	5	8.4
PZL4742	12	11.40	12	12.60	21	9	700	0.25	5	9.1
PZL4743	13	12.35	13	13.65	19	10	700	0.25	5	9.9
PZL4744	15	14.25	15	15.75	17	14	700	0.25	5	11.4
PZL4745	16	15.20	16	16.80	15.5	16	700	0.25	5	12.2
PZL4746	18	17.10	18	18.90	14.0	20	750	0.25	5	13.7
PZL4747	20	19.00	20	21.00	12.5	22	750	0.25	5	15.2
PZL4748	22	20.90	22	23.10	11.5	23	750	0.25	5	16.7
PZL4749	24	22.80	24	25.20	10.5	25	750	0.25	5	18.2
PZL4750	27	25.65	27	28.35	9.5	35	750	0.25	5	20.6
PZL4751	30	28.50	30	31.50	8.5	40	1000	0.25	5	22.8
PZL4752	33	31.35	33	34.65	7.5	45	1000	0.25	5	25.1
PZL4753	36	34.20	36	37.80	7.0	50	1000	0.25	5	27.4
PZL4754	39	37.05	39	40.95	6.5	60	1000	0.25	5	29.7
PZL4755	43	40.85	43	45.15	6.0	70	1500	0.25	5	32.7
PZL4756	47	44.65	47	49.35	5.5	80	1500	0.25	5	35.8
PZL4757	51	48.45	51	53.55	5.0	95	1500	0.25	5	38.8
PZL4758	56	53.20	56	58.80	4.5	110	2000	0.25	5	42.6
PZL4759	62	58.90	62	65.10	4.0	125	2000	0.25	5	47.1
PZL4760	68	64.60	68	71.40	3.7	150	2000	0.25	5	51.7
PZL4761	75	71.25	75	78.75	3.3	175	2000	0.25	5	56.0
PZL4762	82	77.90	82	86.10	3.0	200	3000	0.25	5	62.2
PZL4763	91	86.45	91	95.55	2.8	250	3000	0.25	5	69.2
PZL4764	100	95.00	100	105.0	2.5	350	3000	0.25	5	76.0

Note 2: TOLERANCE AND TYPE NUMBER DESIGNATION

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

Package Outline

SOD-123FL



Dimensions in millimeters and(inches)