

ZM4728A - ZM4758A

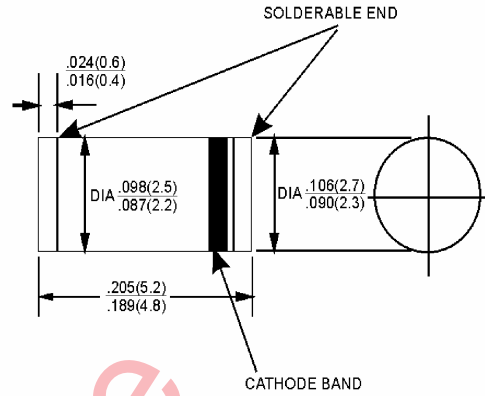
1.0 Watt Hermetically Sealed Glass Zener Voltage Regulators

MELF



Features

- ✧ Zener voltage range 3.3V to 56 V
- ✧ MELF Package (JEDEC DO-213AB)
- ✧ Surface mount devices (SMD).
- ✧ Hermetically sealed glass
- ✧ Compression bonded construction
- ✧ All external surfaces are corrosion resistant and terminals are readily solderable
- ✧ RoHS compliant
- ✧ Matte Tin (Sn) lead finish
- ✧ Color band indicates negative polarity



Dimensions in inches and (millimeters)

Maximum Ratings and Electrical Characteristics

Rating at 25°C ambient temperature unless otherwise specified.

Maximum Ratings

Type Number	Symbol	Value	Units
Power Dissipation	P_d	1.0	W
Thermal Resistance Junction to Ambient	$R_{\theta JA}$	170	°C/W
Storage Temperature Range	T_{STG}	-65 to + 200	°C
Operating Temperature Range	T_J	175	°C

These ratings are limiting values above which the serviceability of the diode may be impaired.

ELECTRICAL CHARACTERISTICS (TA=25°C unless otherwise noted)

Type Number	V _Z @ I _{ZT} (Volts) Nominal	I _{ZT} mA	Z _{ZT} @ I _{ZT} Ohms Max	I _{ZK} mA	Z _{ZK} @ I _{ZK} Ohms	IR @ VR uA Max	VR V
ZM4728A	3.3	76	10	1.0	400	100	1.0
ZM4729A	3.6	69	10	1.0	400	100	1.0
ZM4730A	3.9	64	9	1.0	400	50	1.0
ZM4731A	4.3	58	9	1.0	400	10	1.0
ZM4732A	4.7	53	8	1.0	500	10	1.0
ZM4733A	5.1	49	7	1.0	550	10	1.0
ZM4734A	5.6	45	5	1.0	600	10	2.0
ZM4735A	6.2	41	2	1.0	700	10	3.0
ZM4736A	6.8	37	3.5	1.0	700	10	4.0
ZM4737A	7.5	34	4.0	0.5	700	10	5.0
ZM4738A	8.2	31	4.5	0.5	700	10	6.0
ZM4739A	9.1	28	5.0	0.5	700	10	7.0
ZM4740A	10	25	7.0	0.25	700	10	7.6
ZM4741A	11	23	8.0	0.25	700	5.0	8.4
ZM4742A	12	21	9.0	0.25	700	5.0	9.1
ZM4743A	13	19	10	0.25	700	5.0	9.9
ZM4744A	15	17	14	0.25	700	5.0	11.4
ZM4745A	16	15.5	16	0.25	700	5.0	12.2
ZM4746A	18	14.0	20	0.25	700	5.0	13.7
ZM4747A	20	12.5	22	0.25	750	5.0	15.2
ZM4748A	22	11.5	23	0.25	750	5.0	16.7
ZM4749A	24	10.5	25	0.25	750	5.0	18.2
ZM4750A	27	9.5	35	0.25	750	5.0	20.6
ZM4751A	30	8.5	40	0.25	1000	5.0	22.8
ZM4752A	33	7.5	45	0.25	1000	5.0	25.1
ZM4753A	36	7.0	50	0.25	1000	5.0	27.4
ZM4754A	39	6.5	60	0.25	1000	5.0	29.7
ZM4755A	43	6.0	70	0.25	1500	5.0	32.7
ZM4756A	47	5.5	80	0.25	1500	5.0	35.8
ZM4757A	51	5.0	95	0.25	1500	5.0	38.8
ZM4758A	56	4.5	110	0.25	2000	5.0	42.6

- Notes: 1. The device numbers listed have a standard tolerance on the nominal zener voltage of $\pm 5\%$.
2. For detailed information on price, availability and delivery of nominal zener voltages between the voltages shown and tighter voltage tolerances.
3. The zener impedance is derived from the 60-cycle ac voltage, which results when an ac current having an ms value equal to 10% of the dc zener current (I_{ZT} or I_{ZK}) is superimposed to I_{ZT} or I_{ZK}.

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