

1.0W Surface Mount Zener Diodes

Features

- Silicon planar power zener diodes
- For use in stabilizing and clipping circuits with higher power rating
- Standard zener voltage tolerance is $\pm 5\%$
- Low profile package
- Built-in strain relief
- Low inductance
- RoHS compliant



MELF

Mechanical Data

Case:	Molded glass MELF
Terminals:	Solder plated, solderable per MIL-STD-750, Method 2026
Polarity:	Color band denotes cathode end
Weight:	0.135 grams

Maximum Ratings ($T_{Ambient}=25^{\circ}\text{C}$ unless noted otherwise)

Symbol	Description	Value	Unit	Conditions
P_{TOT}	Power Dissipation at $T_A=25^{\circ}\text{C}$	1	W	Note
T_J	Operation Junction Temperature Range	-65 to 200	$^{\circ}\text{C}$	
T_{STG}	Storage Temperature Range	-65 to 200	$^{\circ}\text{C}$	
V_F	Forward Voltage	1.2	V	$I_F=200\text{mA}$
R_{θJA}	Thermal Resistance Junction to Ambient Air	170	$^{\circ}\text{C/W}$	

Note: Valid provided that electrodes are kept at ambient temperature.

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ZM4728A - ZM4764A

Electrical Characteristics ($T_{Ambient}=25^{\circ}C$ unless noted otherwise)

Part NO.	Nominal Zener Voltage @ IZT				Max. Zener Impedance (Ω)			Max. Reverse Leakage Current IR @ VR	
	Vz(V)			IZT(mA)	ZzT @ IZT	Zzk @ Izk	Izk(mA)	IR(μ A)	VR(V)
	Nom.	Min.	Max.						
ZM4728A	3.3	3.14	3.47	76.0	10.0	400	1.0	100	1.0
ZM4729A	3.6	3.42	3.78	69.0	10.0	400	1.0	100	1.0
ZM4730A	3.9	3.71	4.10	64.0	9.0	400	1.0	50	1.0
ZM4731A	4.3	4.09	4.52	58.0	9.0	400	1.0	10	1.0
ZM4732A	4.7	4.47	4.94	53.0	8.0	500	1.0	10	1.0
ZM4733A	5.1	4.85	5.36	49.0	7.0	550	1.0	10	1.0
ZM4734A	5.6	5.32	5.88	45.0	5.0	600	1.0	10	2.0
ZM4735A	6.2	5.89	6.51	41.0	2.0	700	1.0	10	3.0
ZM4736A	6.8	6.46	7.14	37.0	3.5	700	1.0	10	4.0
ZM4737A	7.5	7.13	7.88	34.0	4.0	700	0.5	10	5.0
ZM4738A	8.2	7.79	8.61	31.0	4.5	700	0.5	10	6.0
ZM4739A	9.1	8.65	9.56	28.0	5.0	700	0.5	10	7.0
ZM4740A	10	9.50	10.50	25.0	7.0	700	0.25	10	7.6
ZM4741A	11	10.45	11.55	23.0	8.0	700	0.25	5	8.4
ZM4742A	12	11.40	12.60	21.0	9.0	700	0.25	5	9.1
ZM4743A	13	12.35	13.65	19.0	10.0	700	0.25	5	9.9
ZM4744A	15	14.25	15.75	17.0	14.0	700	0.25	5	11.4
ZM4745A	16	15.20	16.80	15.5	16.0	700	0.25	5	12.2
ZM4746A	18	17.10	18.90	14.0	20.0	750	0.25	5	13.7
ZM4747A	20	19.00	21.00	12.5	22.0	750	0.25	5	15.2
ZM4748A	22	20.90	23.10	11.5	23.0	750	0.25	5	16.7
ZM4749A	24	22.80	25.20	10.5	25.0	750	0.25	5	18.2
ZM4750A	27	25.65	28.35	9.5	35.0	750	0.25	5	20.6
ZM4751A	30	28.50	31.50	8.5	40.0	1000	0.25	5	22.8
ZM4752A	33	31.35	34.65	7.5	45.0	1000	0.25	5	25.1
ZM4753A	36	34.20	37.80	7.0	50.0	1000	0.25	5	27.4
ZM4754A	39	37.05	40.95	6.5	60.0	1000	0.25	5	29.7
ZM4755A	43	40.85	45.15	6.0	70.0	1500	0.25	0.5	32.7

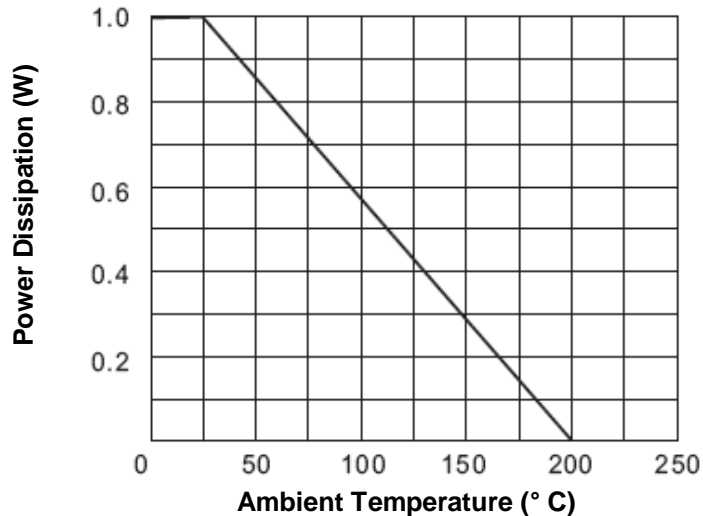
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ZM4728A - ZM4764A

Part NO.	Nominal Zener Voltage @ IZT				Max. Zener Impedance (Ω)			Max. Reverse Leakage Current IR @ VR	
	Vz(V)			IZT(mA)	ZzT @ IZT	Zzk @ Izk	Izk(mA)	IR(μ A)	VR(V)
	Nom.	Min.	Max.						
ZM4756A	47	44.65	49.35	5.5	80.0	1500	0.25	0.5	35.8
ZM4757A	51	48.45	53.55	5.0	95.0	1500	0.25	0.5	38.8
ZM4758A	56	53.20	58.80	4.5	110.0	2000	0.25	0.5	42.6
ZM4759A	62	58.90	65.10	4.0	125.0	2000	0.25	0.5	47.1
ZM4760A	68	64.60	71.40	3.7	150.0	2000	0.25	0.5	51.7
ZM4761A	75	71.25	78.75	3.3	175.0	2000	0.25	0.5	56.0
ZM4762A	82	77.90	86.10	3.0	200.0	3000	0.25	0.5	62.2
ZM4763A	91	86.45	95.55	2.8	250.0	3000	0.25	0.5	69.2
ZM4764A	100	95.00	105.00	2.5	350.0	3000	0.25	0.5	76.0

Typical Characteristics Curves

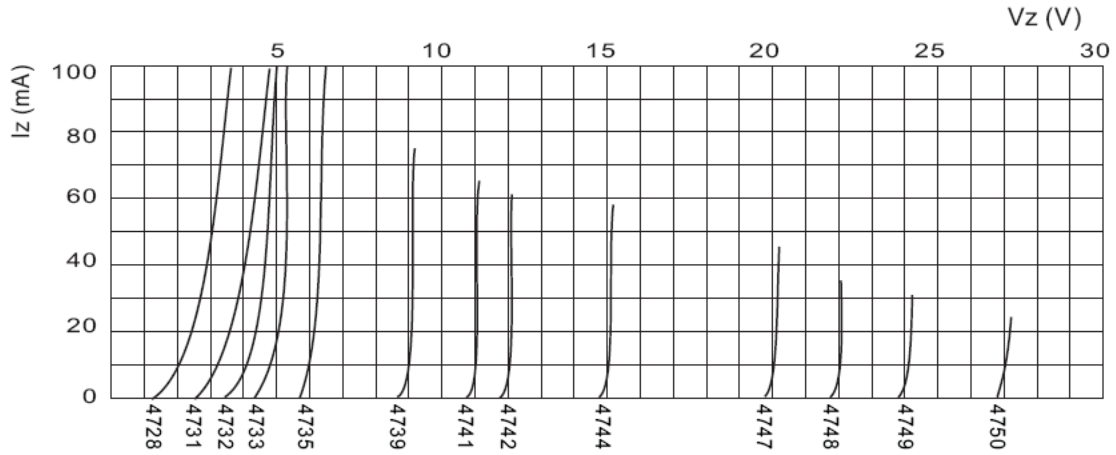
Fig.1-Power Derating Curve



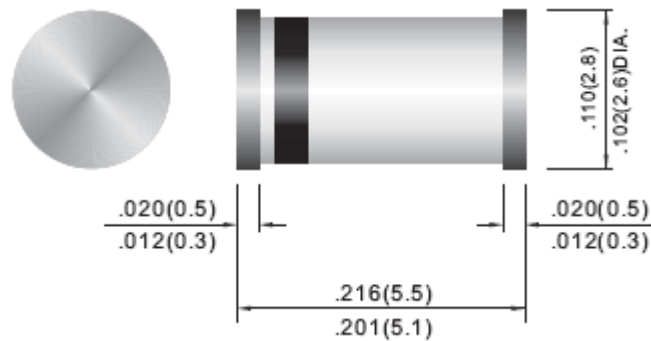
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ZM4728A - ZM4764A

Fig.2-Breakdown Characteristics



Dimensions in inch (mm)

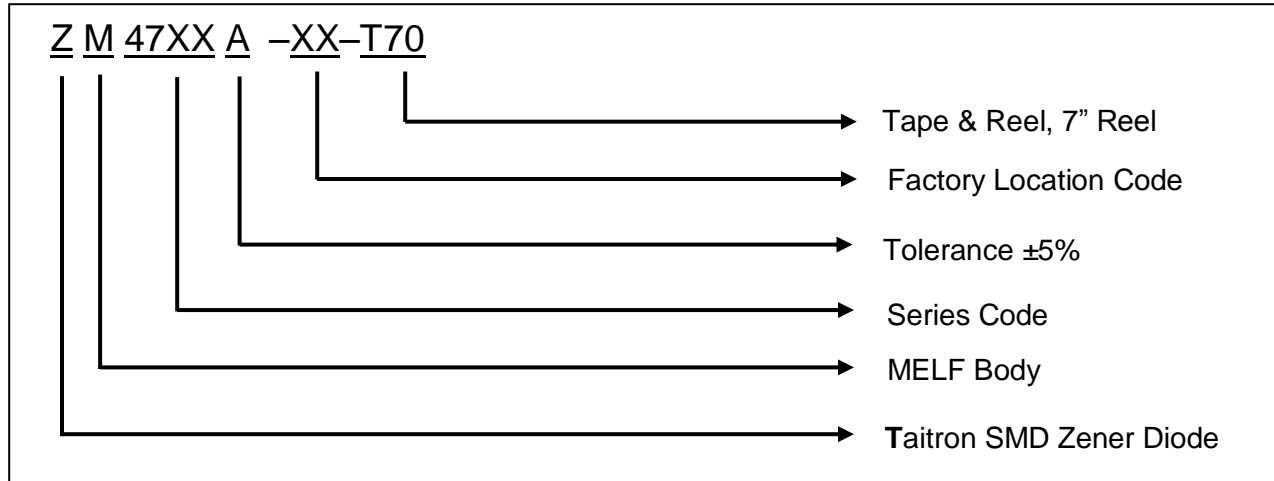


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Ordering Information



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