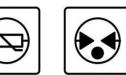
# MSKSEMI 美森科







SS MOV



GDT



PIFC

ZM4727-ZM4761

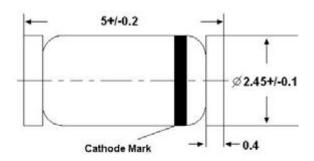
**Product specification** 





for use in stabilizing and clipping circuits with high power rating. Standard Zener voltage tolerance is  $\pm 10\%$ . Add suffix "A" for  $\pm 5\%$  tolerance and suffix "B" for  $\pm 2\%$  tolerance. Other tolerances available are upon request.

These diodes are also available in DO-41 case with the type designation 1N4727...1N4761



Glass case MELF Dimensions in mm

**LL41** 

### **REEL SPECIFICATION**

P/N	PKG	QTY
ZM4727-ZM4761	LL41	5000

## Absolute Maximum Ratings (Ta = 25℃)

Parameter	Symbol	Value	Unit			
Power Dissipation	P <sub>tot</sub>	1 1)	W			
Junction Temperature	T <sub>j</sub>	175	°C			
Storage Temperature Range	T <sub>stg</sub>	- 65 to + 175	°C			
1) Valid provided that electrodes are kept at ambient temperature.						

## Characteristics at Ta = 25°C

Thermal Resistance Junction to Ambient Air	R <sub>thA</sub>	0.3 1)	K/mW		
Forward Voltage at I <sub>F</sub> = 100 mA	VF	1	V		
1) Valid provided that electrodes are kept at ambient temperature					



#### Characteristics at Ta = 25℃

P/N	Zener Voltage 3)		Dynamic Resistance		Reverse Current		Maximum Surge Current <sup>4)</sup>	Maximum Regulator	
	V <sub>Znom</sub>	at I <sub>ZT</sub>	Z <sub>ZT</sub>	Z <sub>ZK</sub>	at I <sub>zK</sub>	I <sub>R</sub>	at V <sub>R</sub>	at T <sub>a</sub> = 25°C	Current 2)
	(V)	(mA)	Max. (Ω)	Max. (Ω)	(mA)	Max. (μA)	(V)	I <sub>ZSM</sub> (mA)	I <sub>ZM</sub> (mA)
ZM4727	3	83	10	400	1	150	1	1375	275
ZM4728	3.3	76	10	400	1	150	1	1375	275
ZM4729	3.6	69	10	400	1	100	1	1260	252
ZM4730	3.9	64	9	400	1	100	1	1190	234
ZM4731	4.3	58	9	400	1	50	1	1070	217
ZM4732	4.7	53	8	500	1	10	1	970	193
ZM4733	5.1	49	7	550	1	10	1	890	178
ZM4734	5.6	45	5	600	1	10	2	810	162
ZM4735	6.2	41	2	700	1	10	3	730	146
ZM4736	6.8	37	3.5	700	1	10	4	660	133
ZM4737	7.5	34	4	700	0.5	10	5	605	121
ZM4738	8.2	31	4.5	700	0.5	10	6	550	110
ZM4739	9.1	28	5	700	0.5	10	7	500	100
ZM4740	10	25	7	700	0.25	10	7.6	454	91
ZM4741	11	23	8	700	0.25	5	8.4	414	83
ZM4742	12	21	9	700	0.25	5	9.1	380	76
ZM4743	13	19	10	700	0.25	5	9.9	344	69
ZM4744	15	17	14	700	0.25	5	11.4	304	61
ZM4745	16	15.5	16	700	0.25	5	12.2	285	57
ZM4746	18	14	20	750	0.25	5	13.7	250	50
ZM4747	20	12.5	22	750	0.25	5	15.2	225	45
ZM4748	22	11.5	23	750	0.25	5	16.7	205	41
ZM4749	24	10.5	25	750	0.25	5	18.2	190	38
ZM4750	27	9.5	35	750	0.25	5	20.6	170	34
ZM4751	30	8.5	40	1000	0.25	5	22.8	150	30
ZM4752	33	7.5	45	1000	0.25	5	25.1	135	27
ZM4753	36	7	50	1000	0.25	5	27.4	125	25
ZM4754	39	6.5	60	1000	0.25	5	29.7	115	23
ZM4755	43	6	70	1500	0.25	5	32.7	110	22
ZM4756	47	5.5	80	1500	0.25	5	35.8	95	19
ZM4757	51	5	95	1500	0.25	5	38.8	90	18
ZM4758	56	4.5	110	2000	0.25	5	42.6	80	16
ZM4759	62	4	125	2000	0.25	5	47.1	70	14
ZM4760	68	3.7	150	2000	0.25	5	51.7	65	13
ZM4761	75	3.3	175	2000	0.25	5	56	60	12

<sup>1)</sup> The dynamic resistance is derived from the 60 Hz AC voltage which results when an AC current having an RMS value equal to 10% of the Zener Current (Izτ or Izκ) is superimposed on Izτ or Izκ. Dynamic resistance is measured at two points to insure a sharp knee on the breakdown curve and to eliminate unstable units.

<sup>2)</sup> Valid provided that electrodes are kept at ambient temperature.

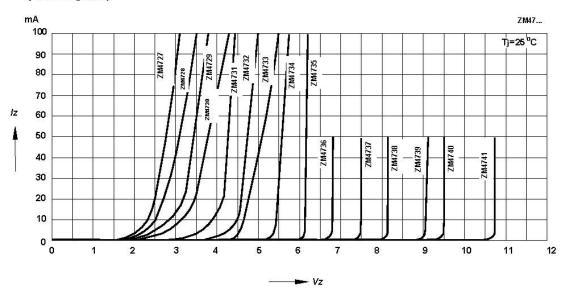
<sup>3)</sup> Tested with pulses tp = 20 ms.

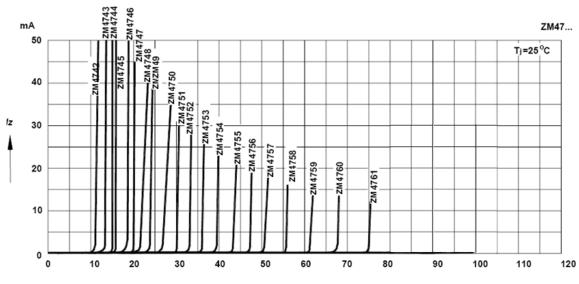
<sup>4)</sup> The rating listed in the electrical characteristics table is maximum peak, non-repetitive, reverse surge current of 1/2 square wave or equivalent sine wave pulse of 1/120 second duration superimposed on the test current IzT.

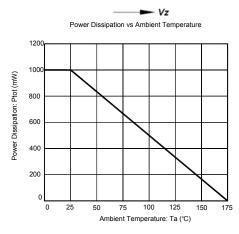


#### Breakdowm characteristics

Tj=constant(pulsed)









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