

# MSKSEMI 美森科

SEMICONDUCTOR



ESD



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GDT



PLED

**1SMA4728A-MS - 1SMA4777A-MS**

**Product specification**


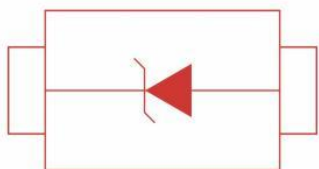
## FEATURES

- Total power dissipation: Max. 1 W.
- Wide zener reverse voltage range 3.3V to 330V.
- Small plastic package suitable for surface mounted design.

## Mechanical Data

- Case: SMA
- Terminals: Solderable per MIL- STD- 750, Method 2026
- Approx. Weight: 0.055g / 0.002oz

## Reference News

PACKAGE OUTLINE	PIN CONFIGURATION
	
Simplified outline SMA and symbol	

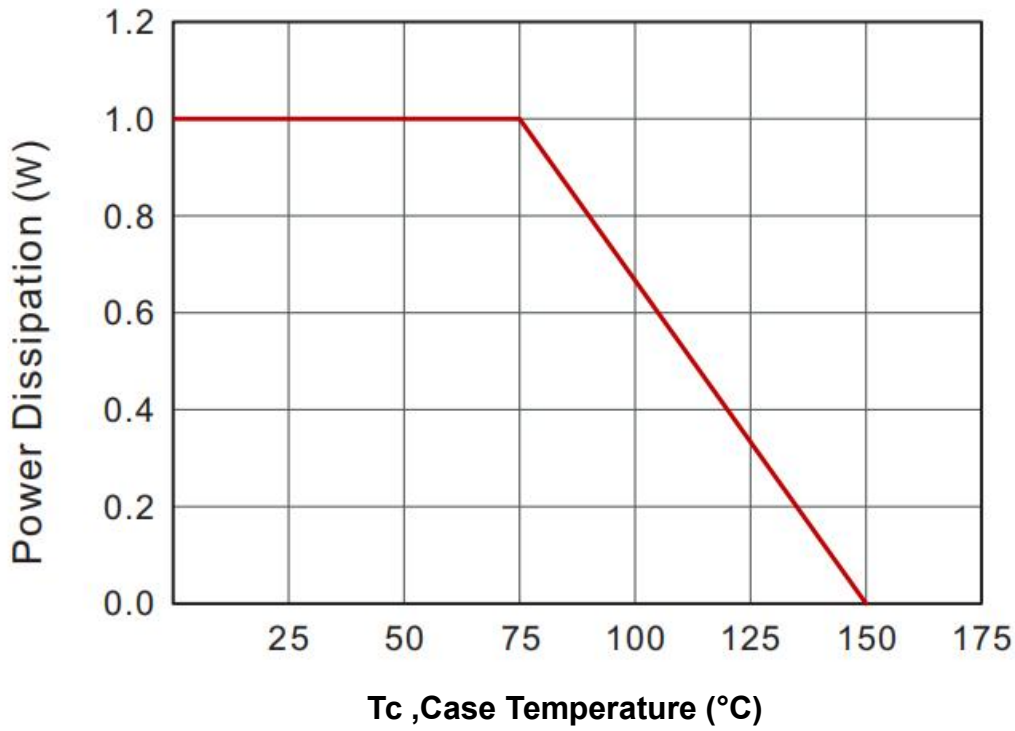
## PINNING

PIN	DESCRIPTION
1	Cathode
2	A node

**Absolute Maximum Ratings And Characteristics (Ta = 25 °C)**

Parameter	Symbol	Value	Unit
Power Dissipation at T <sub>c</sub> = 75°C	P <sub>D</sub>	1	W
Forward Voltage at I <sub>F</sub> = 200 mA	V <sub>F</sub>	1.2	V
Junction Temperature Range	T <sub>J</sub>	- 55 to + 150	°C
Storage Temperature Range	T <sub>S</sub>	- 55 to + 150	°C

**Fig.1 Maximum Continuous Power Derating**

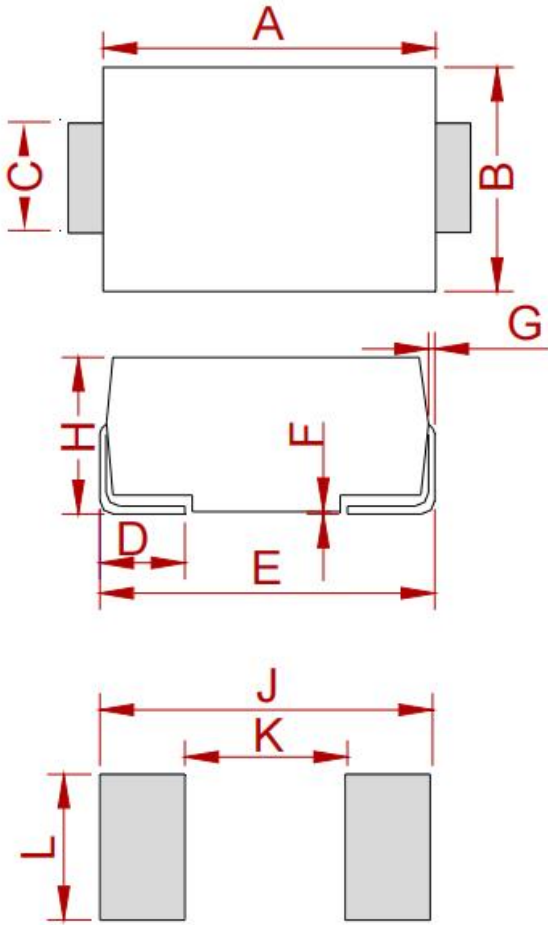


**C haracteristics at Ta = 25°C**

Type	Marking	Zener Voltage Range <sup>(1)</sup>			I <sub>ZT</sub>	Dynamic Impedance	Reverse Current		Admissible Zener Current
		V <sub>ZT</sub> ( at I <sub>ZT</sub> )				Z <sub>ZT</sub> ( at I <sub>ZT</sub> )	I <sub>R</sub>	at V <sub>R</sub>	
		Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)	Max ( μA)	(V)	I <sub>ZM</sub> (mA)
1SMA4728A-MS	728A	3.10	3.3	3.50	75	10	100	1	285
1SMA4729A-MS	729A	3.40	3.6	3.80	69	10	100	1	263
1SMA4730A-MS	730A	3.70	3.9	4.10	64	9.0	50	1	243
1SMA4731A-MS	731A	4.06	4.3	4.56	58	9.0	25	1	219
1SMA4732A-MS	732A	4.50	4.7	4.93	53	8.0	10	1	203
1SMA4733A-MS	733A	4.84	5.1	5.36	49	7.0	10	1	186
1SMA4734A-MS	734A	5.32	5.6	5.92	45	5.0	10	2	170
1SMA4735A-MS	735A	5.86	6.2	6.51	41	2.0	10	3	154
1SMA4736A-MS	736A	6.46	6.8	7.18	37	3.5	10	4	140
1SMA4737A-MS	737A	7.12	7.5	7.88	34	4.0	10	5	127
1SMA4738A-MS	738A	7.79	8.2	8.67	31	4.5	10	6	116
1SMA4739A-MS	739A	8.60	9.1	9.59	28	5.0	10	7	104
1SMA4740A-MS	740A	9.50	10	10.5	25	7.0	10	7	95
1SMA4741A-MS	741A	10.4	11	11.6	23	8.0	5	8	86
1SMA4742A-MS	742A	11.4	12	12.6	21	9.0	5	9	79
1SMA4743A-MS	743A	12.4	13	14.1	19	10	5	10	71
1SMA4744A-MS	744A	13.8	15	15.8	17	14	5	11	63
1SMA4745A-MS	745A	15.2	16	17.1	16	16	5	12	58
1SMA4746A-MS	746A	16.8	18	19.2	14	20	5	13	52
1SMA4747A-MS	747A	19.0	20	21.2	13	22	5	15	47
1SMA4748A-MS	748A	20.8	22	23.3	12	23	5	17	43
1SMA4749A-MS	749A	22.8	24	26.0	11	25	5	18	38
1SMA4750A-MS	750A	25.3	27	28.9	9.5	35	5	21	35
1SMA4751A-MS	751A	28.2	30	32.0	8.5	40	5	23	31
1SMA4752A-MS	752A	31.3	33	34.9	7.5	45	5	25	28
1SMA4753A-MS	753A	34.2	36	37.9	7.0	50	5	27	26
1SMA4754A-MS	754A	37.2	39	41.5	6.5	60	5	30	24
1SMA4755A-MS	755A	40.9	43	45.6	6.0	70	1	32	22
1SMA4756A-MS	756A	44.9	47	49.8	5.5	80	1	35	20
1SMA4757A-MS	757A	48.6	51	54.0	5.0	95	1	38	18
1SMA4758A-MS	758A	53.6	56	58.8	4.5	110	1	42	17
1SMA4759A-MS	759A	58.9	62	65.6	4.0	125	1	47	15
1SMA4760A-MS	760A	64.6	68	71.7	3.7	150	1	52	14
1SMA4761A-MS	761A	71.2	75	78.8	3.3	175	1	56	12
1SMA4762A-MS	762A	77.9	82	87.0	3.0	200	1	62	11
1SMA4763A-MS	763A	86.0	91	96.0	2.8	250	1	69	10
1SMA4764A-MS	764A	95.0	100	105	2.5	350	1	76	9.5
1SMA4765A-MS	765A	104	110	116	2.3	450	1	84	8.6
1SMA4766A-MS	766A	114	120	127	2.0	550	1	91	7.8
1SMA4767A-MS	767A	125	135	142	1.9	700	1	100	7.0
1SMA4768A-MS	768A	140	150	157	1.7	900	1	110	6.3
1SMA4769A-MS	769A	155	165	172	1.6	1100	1	120	5.8
1SMA4770A-MS	770A	170	180	191	1.4	1200	1	135	5.2
1SMA4771A-MS	771A	189	200	211	1.2	1400	1	150	4.7
1SMA4772A-MS	772A	209	220	231	1.0	1600	1	165	4.3
1SMA4773A-MS	773A	229	240	251	1.0	1800	1	180	3.9
1SMA4774A-MS	774A	249	260	271	1.0	2000	1	190	3.7
1SMA4775A-MS	775A	269	280	291	1.0	2100	1	205	3.4
1SMA4776A-MS	776A	289	300	315	1.0	2300	1	230	3.1
1SMA4777A-MS	777A	313	330	346	1.0	2500	1	250	2.8

(1) VZT is tested with pulses (20 ms)

**PACKAGE MECHANICAL DATA**



**SMA**

Ref.	Dimensions			
	Millimeters		Inches	
	Min.	Max.	Min.	Max.
A	4.25	4.65	0.167	0.183
B	2.50	2.90	0.098	0.114
C	1.35	1.65	0.053	0.065
D	0.76	1.52	0.030	0.060
E	4.93	5.28	0.194	0.208
F	0.051	0.203	0.002	0.008
G	0.15	0.31	0.006	0.012
H	1.98	2.41	0.078	0.095
J	6.50		0.256	
K		2.30		0.090
L	1.70		0.067	

**REEL SPECIFICATION**

P/N	PKG	QTY
1SMA47XXA-MS	SMA	2000

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