



DESCRIPTION

The 1SMA4728A-1SMA4777A are available in SMA Package.

- Total power dissipation: Max. 1.0 W.
- Wide Reverse Voltage Range 3.3V to 30V.
- Small plastic package suitable for surface mounted design.

MECHANICAL DATA

Case: SMA

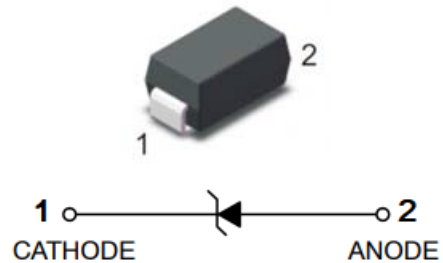
Terminals: Solderable per MIL-STD-750,
Method 2026

Approx. Weight: 0.055g / 0.002oz

ORDERING INFORMATION

Package Type	Part Number	
SMA	1SMA4728A	1SMA4753A
	1SMA4729A	1SMA4754A
	1SMA4730A	1SMA4755A
	1SMA4731A	1SMA4756A
	1SMA4732A	1SMA4757A
	1SMA4733A	1SMA4758A
	1SMA4734A	1SMA4759A
	1SMA4735A	1SMA4760A
	1SMA4736A	1SMA4761A
	1SMA4737A	1SMA4762A
	1SMA4738A	1SMA4763A
	1SMA4739A	1SMA4764A
	1SMA4740A	1SMA4765A
	1SMA4741A	1SMA4766A
	1SMA4742A	1SMA4767A
	1SMA4743A	1SMA4768A
	1SMA4744A	1SMA4769A
	1SMA4745A	1SMA4770A
	1SMA4746A	1SMA4771A
	1SMA4747A	1SMA4772A
	1SMA4748A	1SMA4773A
	1SMA4749A	1SMA4774A
1SMA4750A	1SMA4775A	
1SMA4751A	1SMA4776A	
1SMA4752A	1SMA4777A	
Note	SPQ: 5,000pcs/Reel	
AiT provides all RoHS Compliant Products		

PIN DESCRIPTION





ABSOLUTE MAXIMUM RATINGS

T_A = 25°C, unless otherwise specified.

Parameter	Symbol	Value	Unit
Power Dissipation at T _C = 75 °C	P _D	1	W
Forward Voltage at I _F = 200 mA	V _F	1.2	V
Junction Temperature	T _J	150	°C
Storage Temperature Range	T _{stg}	-55 to 150	°C

Stresses above may cause permanent damage to the device. These are stress ratings only and functional operation of the device at these or any other conditions beyond those indicated in the Electrical Characteristics are not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

ELECTRICAL CHARACTERISTICS

T_A = 25°C, unless otherwise noted

Part Number	Zener Voltage Range (V)*			I _{ZT} (mA)	Dynamic Impedance Z _{ZT} (at I _{ZT}) Max.(Ω)	Reverse Current		Admissible Zener Current I _{ZM} (mA)
	V _{ZT} (at I _{ZT})					I _R Max (μA)	at V _R V	
	Min.	Nom.	Max.					
1SMA4728A	3.10	3.3	3.50	75	10	100	1	285
1SMA4729A	3.40	3.6	3.80	69	10	100	1	263
1SMA4730A	3.70	3.9	4.10	64	9.0	50	1	243
1SMA4731A	4.06	4.3	4.56	58	9.0	25	1	219
1SMA4732A	4.50	4.7	4.93	53	8.0	10	1	203
1SMA4733A	4.84	5.1	5.36	49	7.0	10	1	186
1SMA4734A	5.32	5.6	5.92	45	5.0	10	2	170
1SMA4735A	5.86	6.2	6.51	41	2.0	10	3	154
1SMA4736A	6.46	6.8	7.18	37	3.5	10	4	140
1SMA4737A	7.12	7.5	7.88	34	4.0	10	5	127
1SMA4738A	7.79	8.2	8.67	31	4.5	10	6	116
1SMA4739A	8.60	9.1	9.59	28	5.0	10	7	104
1SMA4740A	9.50	10	10.5	25	7.0	10	7	95
1SMA4741A	10.4	11	11.6	23	8.0	5	8	86
1SMA4742A	11.4	12	12.6	21	9.0	5	9	79
1SMA4743A	12.4	13	14.1	19	10	5	10	71
1SMA4744A	13.8	15	15.8	17	14	5	11	63
1SMA4745A	15.2	16	17.1	16	16	5	12	58

* V_{ZT} is tested with pulses(20ms)



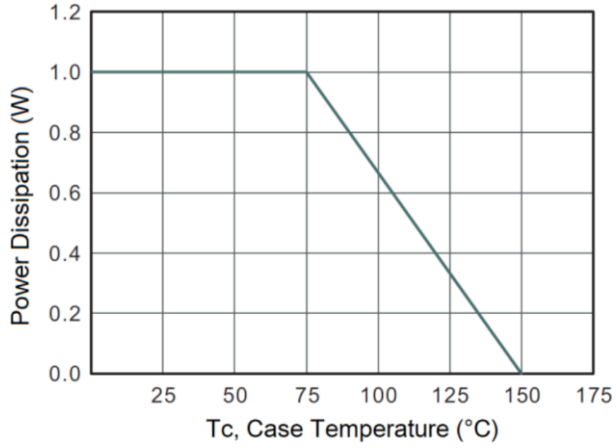
Part Number	Zener Voltage Range (V)*			I _{ZT} (mA)	Dynamic Impedance	Reverse Current		Admissible Zener Current
	V _{ZT} (at I _{ZT})				Z _{ZT} (at I _{ZT})	I _R	at V _R	
	Min.	Nom.	Max.		Max.(Ω)	Max.(μA)	V	I _{ZM} (mA)
1SMA4746A	16.8	18	19.2	14	20	5	13	52
1SMA4747A	19.0	20	21.2	13	22	5	15	47
1SMA4748A	20.8	22	23.3	12	23	5	17	43
1SMA4749A	22.8	24	26.0	11	25	5	18	38
1SMA4750A	25.3	27	28.9	9.5	35	5	21	35
1SMA4751A	28.2	30	32.0	8.5	40	5	23	31
1SMA4752A	31.3	33	34.9	7.5	45	5	25	28
1SMA4753A	34.2	36	37.9	7.0	50	5	27	26
1SMA4754A	37.2	39	41.5	6.5	60	5	30	24
1SMA4755A	40.9	43	45.6	6.0	70	1	32	22
1SMA4756A	44.9	47	49.8	5.5	80	1	35	20
1SMA4757A	48.6	51	54.0	5.0	95	1	38	18
1SMA4758A	53.6	56	58.8	4.5	110	1	42	17
1SMA4759A	58.9	62	65.6	4.0	125	1	47	15
1SMA4760A	64.6	68	71.7	3.7	150	1	52	14
1SMA4761A	71.2	75	78.8	3.3	175	1	56	12
1SMA4762A	77.9	82	87.0	3.0	200	1	62	11
1SMA4763A	86.0	91	96.0	2.8	250	1	69	10
1SMA4764A	95.0	100	105	2.5	350	1	76	9.5
1SMA4765A	104	110	116	2.3	450	1	84	8.6
1SMA4766A	114	120	127	2.0	550	1	91	7.8
1SMA4767A	125	135	142	1.9	750	1	100	7.0
1SMA4768A	140	150	157	1.7	900	1	110	6.3
1SMA4769A	155	165	172	1.6	1100	1	120	5.8
1SMA4770A	170	180	191	1.4	1200	1	135	5.2
1SMA4771A	189	200	211	1.2	1400	1	150	4.7
1SMA4772A	209	220	252	1.0	1600	1	165	4.3
1SMA4773A	229	240	251	1.0	1800	1	180	3.9
1SMA4774A	249	260	271	1.0	2000	1	190	3.7
1SMA4775A	269	280	291	1.0	2100	1	205	3.4
1SMA4776A	289	300	315	1.0	2300	1	230	3.1
1SMA4777A	313	330	346	1.0	2500	1	250	2.8

* V_{ZT} is tested with pulses(20ms)



TYPICAL CHARACTERISTICS

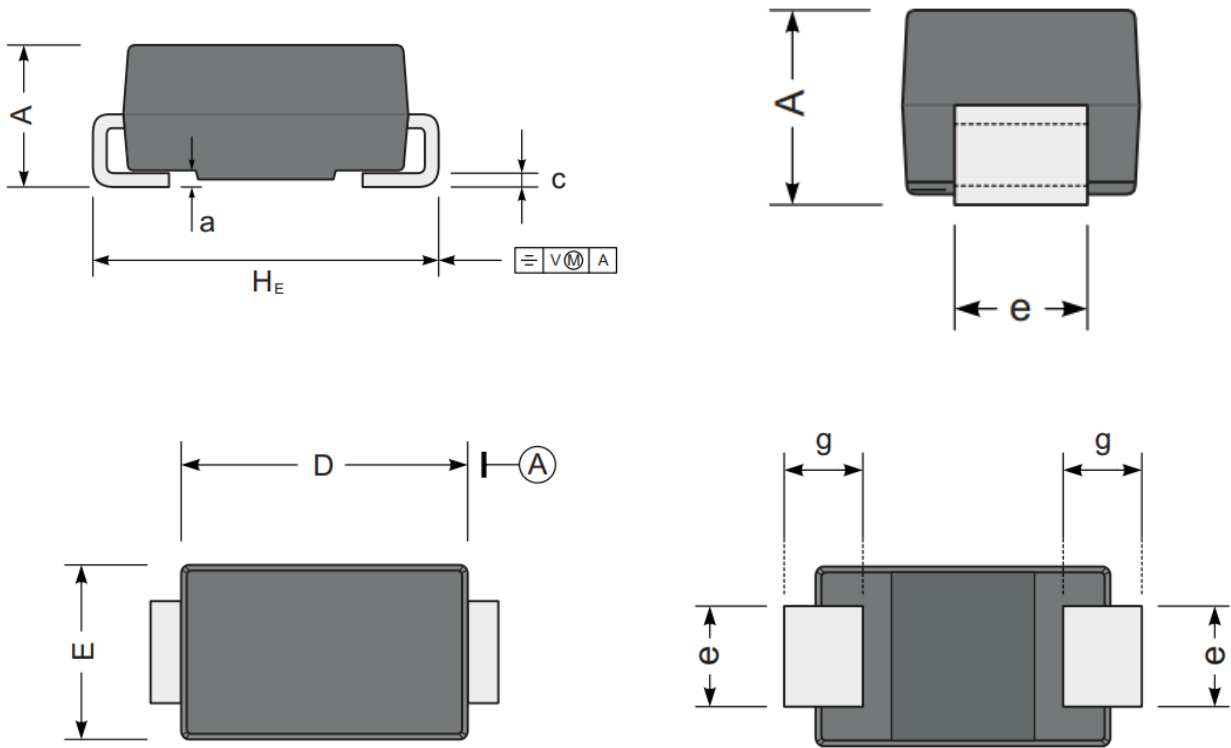
Fig.1 Maximum Continuous Power Derating



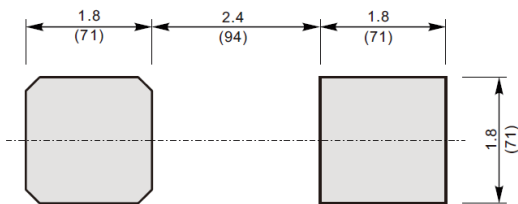


PACKAGE INFORMATION

Dimension in SMA (Unit: mm)



RECOMMENDED MOUNTING FOOTPRINT



Unit : $\frac{\text{mm}}{\text{mil}}$

Symbol	Min	Max
A	1.900	2.200
D	4.000	4.500
E	2.300	2.700
H _E	4.700	5.200
c	0.150	0.310
e	1.300	1.600
g	0.900	1.500
a	0.300	



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