



DESCRIPTION

The SMA4728A ~ SMA4777A are available in SMA package.

ORDERING INFORMATION

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

FEATURES

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

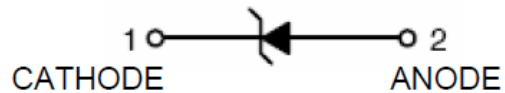
MECHANICAL DATA

Case: SMA

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

Approx. Weight: 0.055g / 0.002oz

PIN DESCRIPTION





ABSOLUTE MAXIMUM RATINGS

T_A = 25°C unless otherwise noted

P _D , Power Dissipation at T _C =75°C	1W
V _F , Forward Voltage at I _F = 200 mA	1.2V
T _J , Junction Temperature Range	-55°C ~ +150°C
T _S , Storage Temperature Range	-55°C ~ +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

Type	Zener Voltage Range ^{NOTE1}			I _{ZT} (mA)	Dynamic Impedance	Reverse Current		Admissible Zener Current I _{ZM} (mA)
	V _{ZT} (at I _{ZT})				Z _{ZT} (at I _{ZT})	I _R	at V _R	
	Min (V)	Nom (V)	Max (V)	(mA)	Max (Ω)	Max (μA)	(V)	
SMA4728A	3.10	3.3	3.50	75	10	100	1	285
SMA4729A	3.40	3.6	3.80	69	10	100	1	263
SMA4730A	3.70	3.9	4.10	64	9.0	50	1	243
SMA4731A	4.06	4.3	4.56	58	9.0	25	1	219
SMA4732A	4.50	4.7	4.93	53	8.0	10	1	203
SMA4733A	4.84	5.1	5.36	49	7.0	10	1	186
SMA4734A	5.32	5.6	5.92	45	5.0	10	2	170
SMA4735A	5.86	6.2	6.51	41	2.0	10	3	154
SMA4736A	6.46	6.8	7.18	37	3.5	10	4	140
SMA4737A	7.12	7.5	7.88	34	4.0	10	5	127
SMA4738A	7.79	8.2	8.67	31	4.5	10	6	116
SMA4739A	8.60	9.1	9.59	28	5.0	10	7	104
SMA4740A	9.50	10	10.5	25	7.0	10	7	95
SMA4741A	10.4	11	11.6	23	8.0	5	8	86
SMA4742A	11.4	12	12.6	21	9.0	5	9	79
SMA4743A	12.4	13	14.1	19	10	5	10	71
SMA4744A	13.8	15	15.8	17	14	5	11	63
SMA4745A	15.2	16	17.1	16	16	5	12	58
SMA4746A	16.8	18	19.2	14	20	5	13	52
SMA4747A	19.0	20	21.2	13	22	5	15	47
SMA4748A	20.8	22	23.3	12	23	5	17	43
SMA4749A	22.8	24	26.0	11	25	5	18	38
SMA4750A	25.3	27	28.9	9.5	35	5	21	35



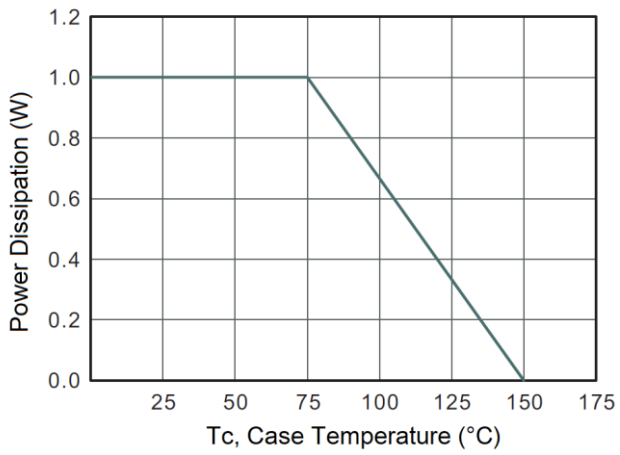
Type	Zener Voltage Range ^{NOTE1}			I _{ZT} (mA)	Dynamic Impedance	Reverse Current		Admissible Zener Current I _{ZM} (mA)
	V _{ZT} (at I _{ZT})				Z _{ZT} (at I _{ZT})	I _R	at V _R	
	Min (V)	Nom (V)	Max (V)	Max (Ω)	Max (μA)	(V)		
SMA4751A	28.2	30	32.0	8.5	40	5	23	31
SMA4752A	31.3	33	34.9	7.5	45	5	25	28
SMA4753A	34.2	36	37.9	7.0	50	5	27	26
SMA4754A	37.2	39	41.5	6.5	60	5	30	24
SMA4755A	40.9	43	45.6	6.0	70	1	32	22
SMA4756A	44.9	47	49.8	5.5	80	1	35	20
SMA4757A	48.6	51	54.0	5.0	95	1	38	18
SMA4758A	53.6	56	58.8	4.5	110	1	42	17
SMA4759A	58.9	62	65.6	4.0	125	1	47	15
SMA4760A	64.6	68	71.7	3.7	150	1	52	14
SMA4761A	71.2	75	78.8	3.3	175	1	56	12
SMA4762A	77.9	82	87.0	3.0	200	1	62	11
SMA4763A	86.0	91	96.0	2.8	250	1	69	10
SMA4764A	95.0	100	105	2.5	350	1	76	9.5
SMA4765A	104	110	116	2.3	450	1	84	8.6
SMA4766A	114	120	127	2.0	550	1	91	7.8
SMA4767A	125	135	142	1.9	700	1	100	7.0
SMA4768A	140	150	157	1.7	900	1	110	6.3
SMA4769A	155	165	172	1.6	1100	1	120	5.8
SMA4770A	170	180	191	1.4	1200	1	135	5.2
SMA4771A	189	200	211	1.2	1400	1	150	4.7
SMA4772A	209	220	231	1.0	1600	1	165	4.3
SMA4773A	229	240	251	1.0	1800	1	180	3.9
SMA4774A	249	260	271	1.0	2000	1	190	3.7
SMA4775A	269	280	291	1.0	2100	1	205	3.4
SMA4776A	289	300	315	1.0	2300	1	230	3.1
SMA4777A	313	330	346	1.0	2500	1	250	2.8

NOTE1: V_{ZT} is tested with pulses (20ms)



TYPICAL CHARACTERISTICS

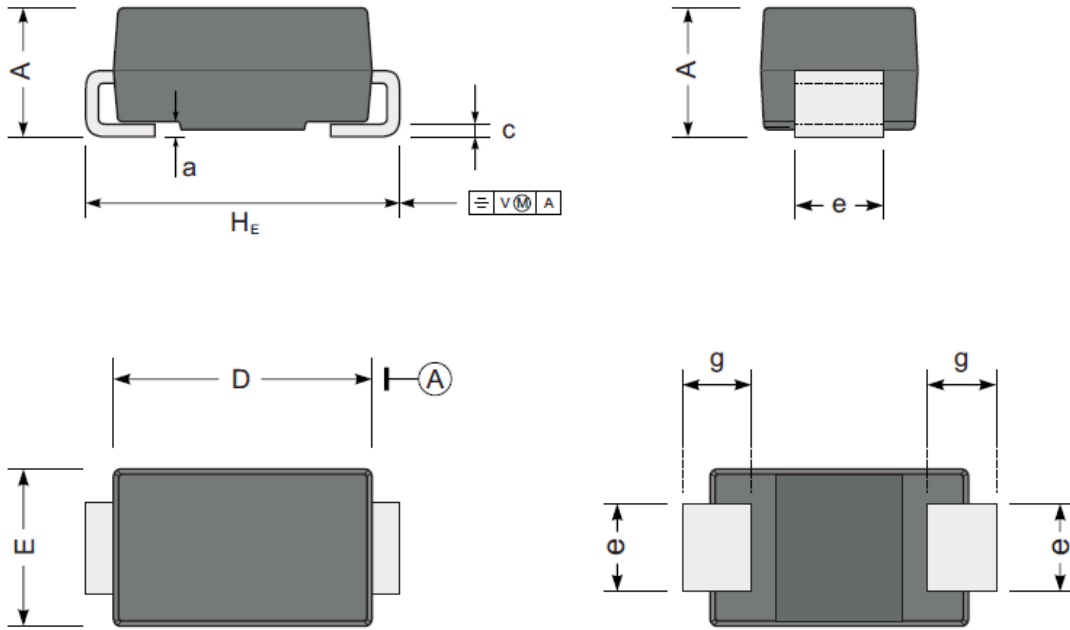
1. Maximum Continuous Power Derating



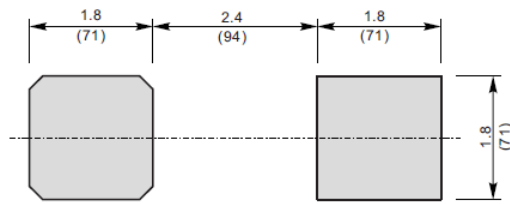


PACKAGE INFORMATION

Dimension in SMA Package (Unit: mm)



The recommended mounting pad size



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

UNIT		A	D	E	H _E	c	e	g	a
mm	Max.	2.2	4.5	2.7	5.2	0.31	1.6	1.5	0.3
	Min.	1.9	4.0	2.3	4.7	0.15	1.3	0.9	
mil	Max.	87	181	106	205	12	63	59	12
	Min.	75	157	91	185	6	51	35	



IMPORTANT NOTICE

AiT Semiconductor Inc. (AiT) reserves the right to make changes to any its product, specifications, to discontinue any integrated circuit product or service without notice, and advises its customers to obtain the latest version of relevant information to verify, before placing orders, that the information being relied on is current.

AiT Semiconductor Inc.'s integrated circuit products are not designed, intended, authorized, or warranted to be suitable for use in life support applications, devices or systems or other critical applications. Use of AiT products in such applications is understood to be fully at the risk of the customer. As used herein may involve potential risks of death, personal injury, or server property, or environmental damage. In order to minimize risks associated with the customer's applications, the customer should provide adequate design and operating safeguards.

AiT Semiconductor Inc. assumes to no liability to customer product design or application support. AiT warrants the performance of its products of the specifications applicable at the time of sale.