



DESCRIPTION

The SMA4728AG ~ SMA4777AG are available in SMA Package.

ORDERING INFORMATION

Package Type	Part Number	
SMA	SMA4728AG	SMA4753AG
	SMA4729AG	SMA4754AG
	SMA4730AG	SMA4755AG
	SMA4731AG	SMA4756AG
	SMA4732AG	SMA4757AG
	SMA4733AG	SMA4758AG
	SMA4734AG	SMA4759AG
	SMA4735AG	SMA4760AG
	SMA4736AG	SMA4761AG
	SMA4737AG	SMA4762AG
	SMA4738AG	SMA4763AG
	SMA4739AG	SMA4764AG
	SMA4740AG	SMA4765AG
	SMA4741AG	SMA4766AG
	SMA4742AG	SMA4767AG
	SMA4743AG	SMA4768AG
	SMA4744AG	SMA4769AG
	SMA4745AG	SMA4770AG
	SMA4746AG	SMA4771AG
	SMA4747AG	SMA4772AG
	SMA4748AG	SMA4773AG
	SMA4749AG	SMA4774AG
	SMA4750AG	SMA4775AG
SMA4751AG	SMA4776AG	
SMA4752AG	SMA4777AG	
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)	
SMA4728AG	3.10	3.3	3.50	75	10	100	1	285
SMA4729AG	3.40	3.6	3.80	69	10	100	1	263
SMA4730AG	3.70	3.9	4.10	64	9.0	50	1	243
SMA4731AG	4.06	4.3	4.56	58	9.0	25	1	219
SMA4732AG	4.50	4.7	4.93	53	8.0	10	1	203
SMA4733AG	4.84	5.1	5.36	49	7.0	10	1	186
SMA4734AG	5.32	5.6	5.92	45	5.0	10	2	170
SMA4735AG	5.86	6.2	6.51	41	2.0	10	3	154
SMA4736AG	6.46	6.8	7.18	37	3.5	10	4	140
SMA4737AG	7.12	7.5	7.88	34	4.0	10	5	127
SMA4738AG	7.79	8.2	8.67	31	4.5	10	6	116
SMA4739AG	8.60	9.1	9.59	28	5.0	10	7	104
SMA4740AG	9.50	10	10.5	25	7.0	10	7	95
SMA4741AG	10.4	11	11.6	23	8.0	5	8	86
SMA4742AG	11.4	12	12.6	21	9.0	5	9	79
SMA4743AG	12.4	13	14.1	19	10	5	10	71
SMA4744AG	13.8	15	15.8	17	14	5	11	63
SMA4745AG	15.2	16	17.1	16	16	5	12	58
SMA4746AG	16.8	18	19.2	14	20	5	13	52
SMA4747AG	19.0	20	21.2	13	22	5	15	47
SMA4748AG	20.8	22	23.3	12	23	5	17	43
SMA4749AG	22.8	24	26.0	11	25	5	18	38
SMA4750AG	25.3	27	28.9	9.5	35	5	21	35



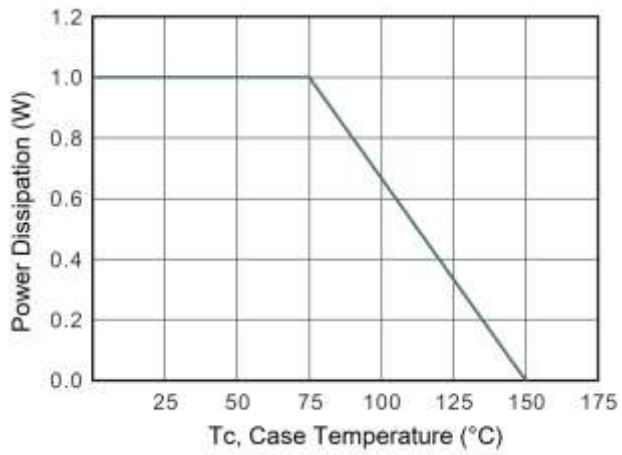
Type	Zener Voltage Range ^{NOTE1}			I _{ZT} (mA)	Dynamic Impedance	Reverse Current		Admissible Zener Current I _{ZM} (mA)
	V _{ZT} (at I _{ZT})				Z _{ZT} (at I _{ZT})	I _R	at V _R	
	Min (V)	Nom (V)	Max (V)	Max (Ω)	Max (μA)	(V)		
SMA4751AG	28.2	30	32.0	8.5	40	5	23	31
SMA4752AG	31.3	33	34.9	7.5	45	5	25	28
SMA4753AG	34.2	36	37.9	7.0	50	5	27	26
SMA4754AG	37.2	39	41.5	6.5	60	5	30	24
SMA4755AG	40.9	43	45.6	6.0	70	1	32	22
SMA4756AG	44.9	47	49.8	5.5	80	1	35	20
SMA4757AG	48.6	51	54.0	5.0	95	1	38	18
SMA4758AG	53.6	56	58.8	4.5	110	1	42	17
SMA4759AG	58.9	62	65.6	4.0	125	1	47	15
SMA4760AG	64.6	68	71.7	3.7	150	1	52	14
SMA4761AG	71.2	75	78.8	3.3	175	1	56	12
SMA4762AG	77.9	82	87.0	3.0	200	1	62	11
SMA4763AG	86.0	91	96.0	2.8	250	1	69	10
SMA4764AG	95.0	100	105	2.5	350	1	76	9.5
SMA4765AG	104	110	116	2.3	450	1	84	8.6
SMA4766AG	114	120	127	2.0	550	1	91	7.8
SMA4767AG	125	135	142	1.9	700	1	100	7.0
SMA4768AG	140	150	157	1.7	900	1	110	6.3
SMA4769AG	155	165	172	1.6	1100	1	120	5.8
SMA4770AG	170	180	191	1.4	1200	1	135	5.2
SMA4771AG	189	200	211	1.2	1400	1	150	4.7
SMA4772AG	209	220	231	1.0	1600	1	165	4.3
SMA4773AG	229	240	251	1.0	1800	1	180	3.9
SMA4774AG	249	260	271	1.0	2000	1	190	3.7
SMA4775AG	269	280	291	1.0	2100	1	205	3.4
SMA4776AG	289	300	315	1.0	2300	1	230	3.1
SMA4777AG	313	330	346	1.0	2500	1	250	2.8

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



TYPICAL CHARACTERISTICS

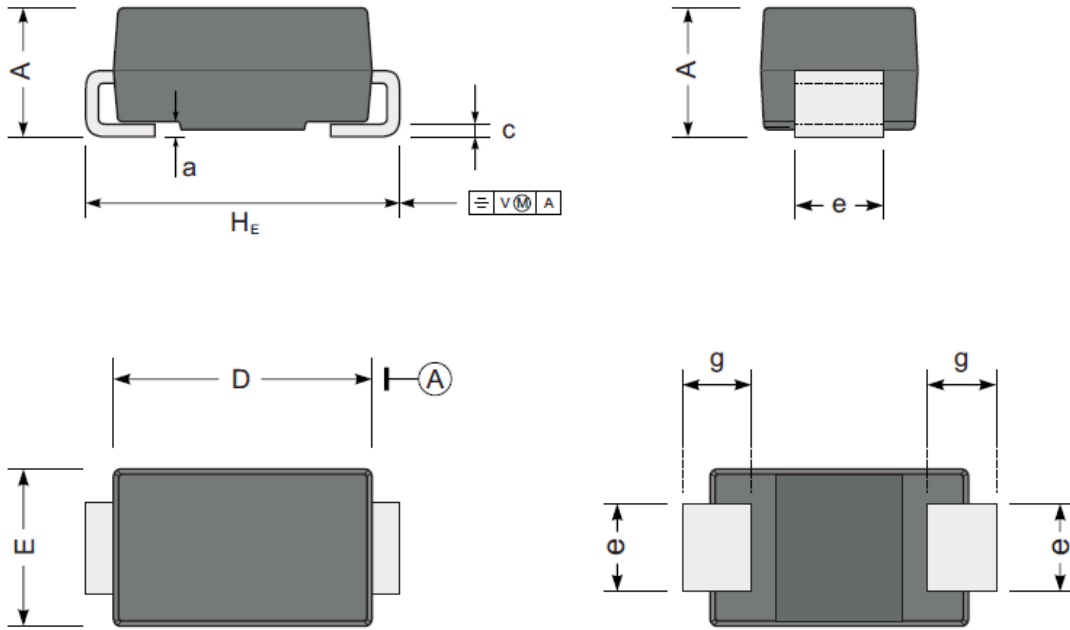
1. Maximum Continuous Power Derating



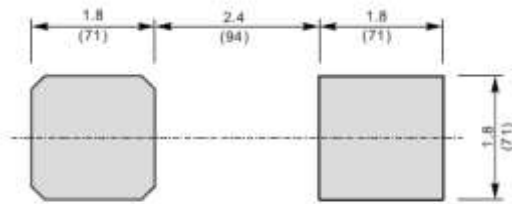


PACKAGE INFORMATION

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	



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