

SMD Multilayer Chip Varistor



AMCV-1206H Series

Request Samples



Check Inventory



3.2 x 1.6 x 1.05mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- SMD type, small size suitable for high density mounting
- Excellent clamping ratio and strong capability of voltage surge suppression
- Excellent solderability (Ni, Sn plating)

Applications

- Transient voltage protection and voltage surge suppression for LED lighting
- Suitable for LCD-TV, STB, Switch, Router, PLC, Security System, smart meters, mobile phones
- Suppressing Induced / switching over-voltage caused by lightning and power
- Protecting DC-DC Module, I/O ports, IC driver

Electrical Specifications

Part Number	Max. Working Voltage		Varistor Voltage	Max. Clamping Voltage		Rated Single Pulse Transient		Typical Capacitance
Test Condition	<20μA		@1mA DC	8/20μs	ESD	Energy 10/1000μs	Peak Current 8/20μs	@1Vrms, 1kHz
	DC	AC RMS						
Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps	pF
Symbol	VWDC	VWAC	VB	VC	IC	ET	IP	CP
AMCV-1206H-5R5	5.5	4.0	12.0 [10.0-14.0]	18	5.0	0.7	300	2400
AMCV-1206H-090	9	6.4	14.0 [12.0-16.0]	20	5.0	0.7	300	2000
AMCV-1206H-120	12	8.5	16.0 [13.0-19.0]	25	5.0	0.7	300	1600
AMCV-1206H-140	14	10.0	19.0 [16.0-22.0]	30	5.0	0.7	300	1500
AMCV-1206H-180	18	12.7	25.0 [22.0-28.0]	40	5.0	0.7	300	1300
AMCV-1206H-220	22	15.6	30.0 [26.0-34.0]	45	5.0	0.7	300	1100
AMCV-1206H-260	26	18.4	35.0 [31.0-38.0]	58	5.0	0.7	250	900
AMCV-1206H-300	30	21.3	42.0 [37.0-46.0]	65	5.0	0.7	250	800
AMCV-1206H-380	38	30.0	50.0 [46.0-54.0]	75	5.0	1.0	250	500
AMCV-1206H-480	48	34.1	60.0 [54.0-67.0]	100	5.0	1.0	250	300
AMCV-1206H-560	56	40.0	68.0 [61.0-75.0]	120	5.0	1.0	250	250
AMCV-1206H-600	60	46.0	76.0 [69.0-83.0]	130	5.0	1.0	250	200
AMCV-1206H-650	65	50.0	82.0 [73.0-91.0]	140	5.0	1.2	250	160
AMCV-1206H-750	75	55.0	94.0 [85.0-103.0]	160	5.0	1.2	250	140
AMCV-1206H-850	85	60.0	100.0 [90.0-110.0]	170	5.0	1.2	250	120
AMCV-1206H-101	100	75.0	120.0 [108.0-132.0]	200	5.0	1.2	250	80

Unless otherwise specified, the standard atmospheric conditions for measurement/test as:

- Ambient Temperature: 20±15°C
- Relative Humidity: 65±20%
- Air Pressure: 86 kPa to 106 kPa



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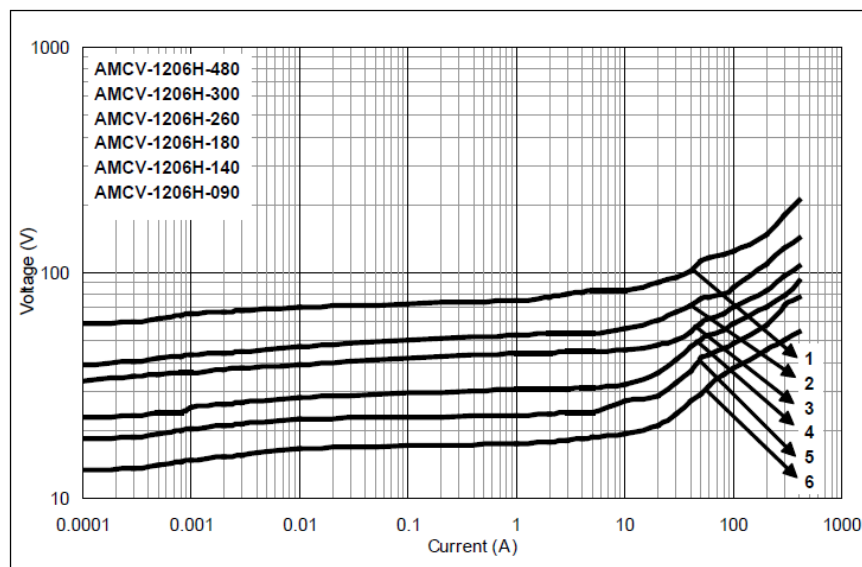
MSL Level = 1

Items	Test Methods and Remarks
Varistor Voltage at 1mA DC (V_B)	Measuring current: 1mA DC Duration: 0.2 to 2 sec
Capacitance (C)	Measure source: 1.0 V_{RMS} Test frequency: 1kHz.
Clamping Voltage (V_C)	Measuring source: 8/20us waveform

Operating Temperature: -55°C ~ +85°C.

Storage Condition: -10°C ~ +40°C (with packaging) and R.H. 70 % max.

AMCV-1206H Series is **RoHS Compliant and Pb free.**



Part Identification

AMCV-1206H- -

Voltage Code

Please refer to the table above

Packaging

T: Tape and Reel
(refer to packaging section)



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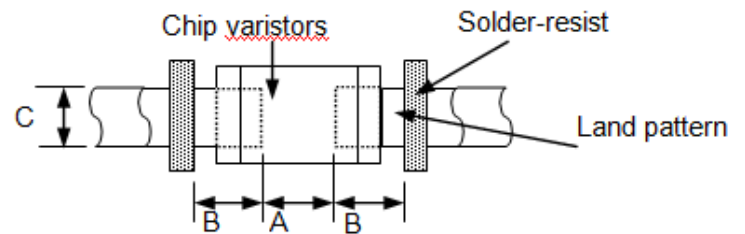
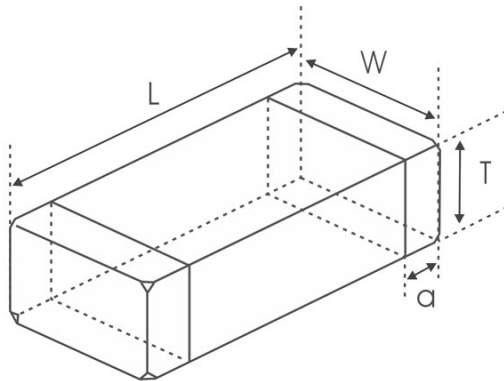


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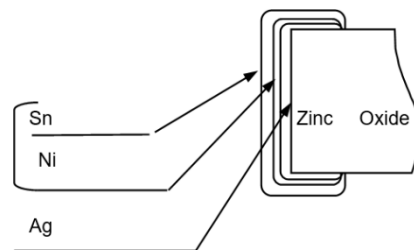
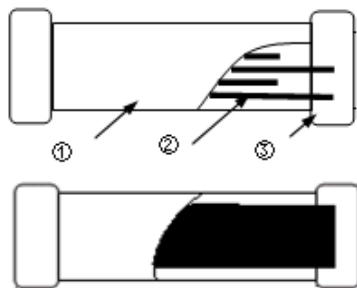
Mechanical Specifications



Series	L	W	T	a	A	B	C
AMCV-1206H	3.2±0.2	1.6±0.2	1.05 Max.	0.2~0.8	1.8~2.5	1.0~1.5	1.2~2.0

Dimensions: mm

Materials



	Part Name	Material
1	Base Material	ZnO
2	Internal Conductor	Ag-Pd
3	Terminal Electrode	Ag (Inner layer) Ni-Sn (Outer layer)



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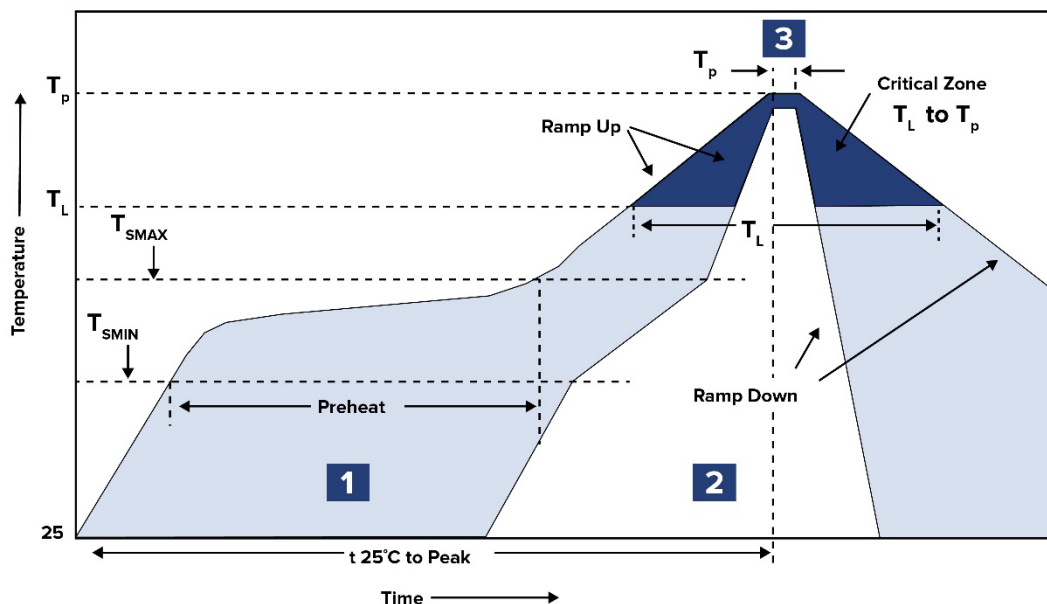


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 90 sec.
3	Peak heat	T_p 260°C Max.	10 sec. MAX

Ref Paste: Sn/3.0Ag/0.5Cu (Lead-Free)

Max ramp up rate: 3°C/Sec

Max ramp down rate: 6°C/Sec



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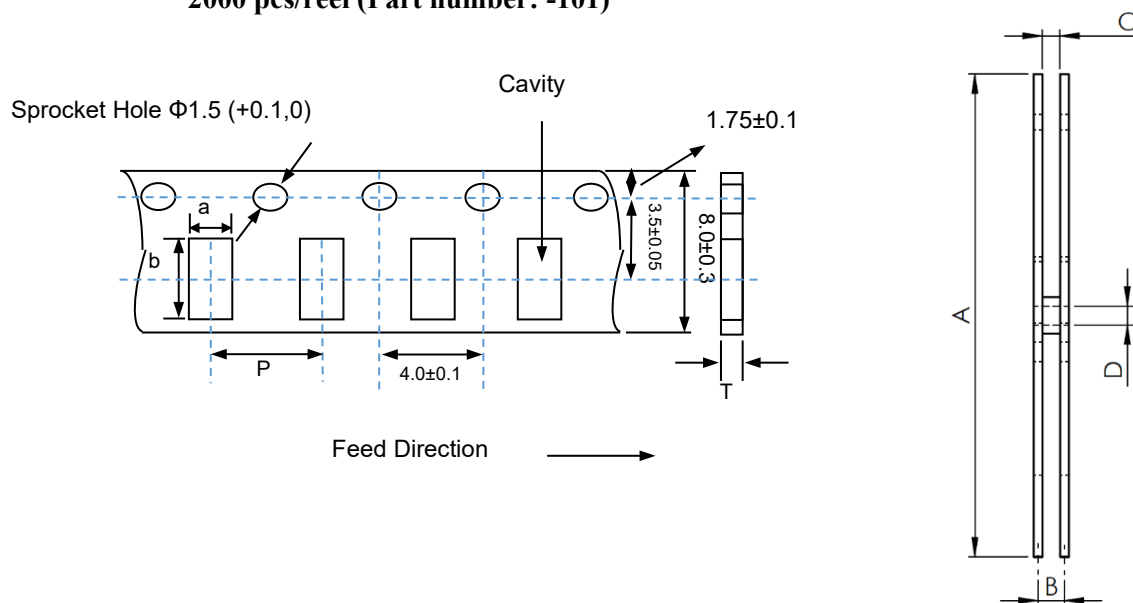


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Packaging

Tape & Reel: 3000 pcs/reel (Part numbers: 5R5 ~ 850)

2000 pcs/reel (Part number: -101)



a	b	P	T (max)	A	B	C	D
1.90 ± 0.1	3.50 ± 0.1	4.0 ± 0.1	1.10 ± 0.1	178 ± 2.0	12.5 ± 0.5	10.0 ± 0.1	13.5 ± 0.2

Dimensions: mm

ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



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