

# SMD Multilayer Chip Varistor

AMCV-1206H

RoHS  
Compliant



3.2 x 1.6 x 1.05mm

## 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

## STANDARD SPECIFICATIONS:

**Operating Temperature:** -55°C ~ +125°C

**Storage Temperature:** -10°C ~ +40°C and RH 70% (Max.)

Part Number	Max. Working Voltage		Varistor Voltage	Max. Clamping Voltage		Rated Single Pulse Transient		Typical Capacitance
	DC	AC RMS		8/20 $\mu$ s	ESD	Energy 10/1000 $\mu$ s	Peak Current 8/20 $\mu$ s	
Test Condition	<20 $\mu$ A		@1mA DC	8/20 $\mu$ s	ESD	Energy 10/1000 $\mu$ s	Peak Current 8/20 $\mu$ s	@1V <sub>rms</sub> , 1kHz
Units	Volts	Volts						
Symbol	V <sub>WDC</sub>	V <sub>WAC</sub>	V <sub>B</sub>	V <sub>C</sub>	I <sub>C</sub>	E <sub>T</sub>	I <sub>P</sub>	C <sub>P</sub>
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 $\pm$ 15°C
- Relative Humidity: 65 $\pm$ 20%
- Air Pressure: 86 kPa to 106 kPa

Items	Test Methods and Remarks
Varistor Voltage at 1mA DC (V <sub>B</sub> )	Measuring current: 1mA DC Duration: 0.2 to 2 sec
Capacitance (C)	Measure source: 1.0 V <sub>RMS</sub> Test frequency: 1kHz.
Clamping Voltage (V <sub>C</sub> )	Measuring source: 8/20us waveform

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3.2 x 1.6 x 1.05mm

## OPTIONS AND PART IDENTIFICATION:

AMCV-1206H--

### Voltage Code

Please refer to the table above

### Packaging

T: Tape and Reel  
(3kpcs / reel)

## V/I CHARACTERISTICS



## OUTLINE DIMENSION:



L	W	T	a
3.2±0.2	1.6±0.2	1.05 Max.	0.2~0.8

## Recommended Land Pattern



A	B	C
1.8~2.5	1.0~1.5	1.2~2.0

Dimension: mm

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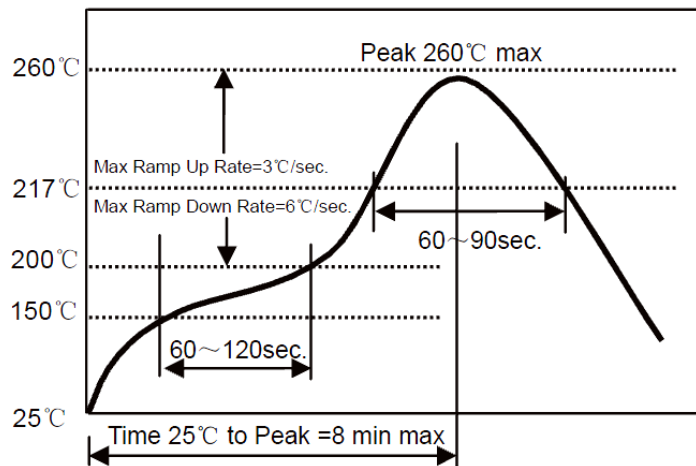
## Materials



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



## REFLOW PROFILE:



Preheat Condition	150 to 200 °C; 60 to 120 sec.
Allowed time above 217 °C	60 to 90 sec.
Max temperature	260 °C
Max time at max temperature	10 sec.
Solder paste	Sn/3.0Ag/0.5Cu
Allowed Reflow time	2x max.

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## TAPE & REEL:

T: 3,000pcs / reel



A	B	P	T (max)
1.90	3.50	4.0	1.10



W1	W2
$10.0 \pm 0.5$	$12.5 \pm 0.5$

## Storage Conditions

- The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to high humidity. Package must be stored at 40°C or less and 70% RH or less.
- The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust or harmful gas (e.g. HCl, sulfurous gas of H<sub>2</sub>S).
- Packaging material may be deformed if package are stored where they are exposed to heat of direct sunlight.
- Solderability shall be guaranteed for 6 months from the date of delivery on condition that they are stored at the environment specified in 1.3. The parts that are stored more than 6 months shall be checked solderability before use.

Dimension: mm

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