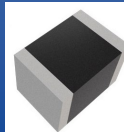


Varistors for High Voltage



AMCV-SH0806

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2.2 x 1.6 x 2.0 mm
RoHS/RoHS II Compliant
MSL Level = 2

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)
- Green, meet RoHS requirements.

Applications

- AC Mains surge protection for 120V/ 230V
- AC-DC Switch Mode Power Supplies (SMPS)
- Commercial and industrial LED lighting
- Home and Commercial appliances
- Industrial Control panels for AC distribution
- Uninterruptible Power Supplies (UPS).
- Level 1 and Level 2 EV Charging equipment
- Solar Inverters /Grid connected equipment

Electrical Specifications

Part Number	Max. Working Voltage		Varistor Voltage	Max. Clamping Volts/Amps		Rated Single Pulse Transient	
Test Condition	<30μA		@1mA DC	8/20μs		Energy 10/1000μs	Peak Current 8/20μs
	DC	AC RMS					
Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps
Symbol	VDC	VAC	VB	VC	IC	E _T	I _P
AMCV-SH0806-151-181	200	150	240[216-264]	360	5.0	0.36	180
AMCV-SH0806-151-101	200	150	240[216-264]	360	5.0	0.36	100
AMCV-SH0806-171-181	225	175	270[243-297]	410	5.0	0.40	180
AMCV-SH0806-171-101	225	175	270[243-297]	410	5.0	0.40	100
AMCV-SH0806-191-101	250	195	300[270-330]	450	5.0	0.40	100
AMCV-SH0806-231-101	300	230	360[324-396]	540	5.0	0.36	100
AMCV-SH0806-251-700	320	250	390[351-429]	590	5.0	0.36	70
AMCV-SH0806-251-500	320	250	390[351-429]	590	5.0	0.36	50
AMCV-SH0806-271-700	350	275	430[387-473]	650	5.0	0.40	70
AMCV-SH0806-271-500	350	275	430[387-473]	650	5.0	0.40	50
AMCV-SH0806-301-500	385	300	470[423-517]	710	5.0	0.40	50

Operating Temperature: -55°C to +125°C

Storage: Temperature 10°C to +50°C, RH<60%, Max. Humidity <85% RH

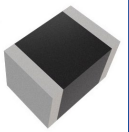


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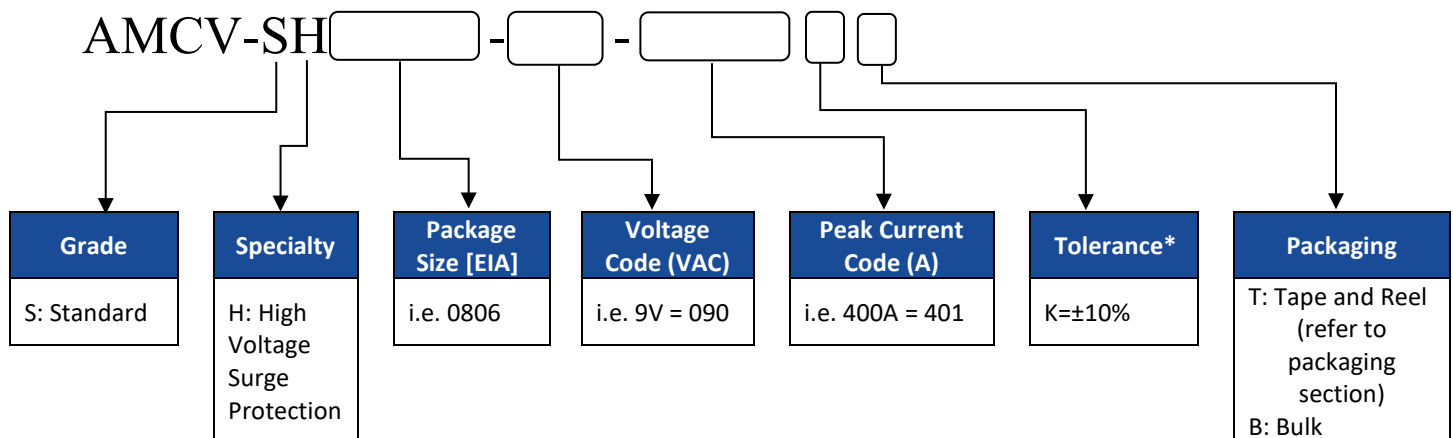
2.2 x 1.6 x 2.0 mm
RoHS/RoHS II Compliant
MSL Level = 2

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

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

- Ambient Temperature: $20 \pm 15^\circ\text{C}$
- Relative Humidity: $65 \pm 20\%$
- Air Pressure: 86 kPa to 106 kPa

Part Number Identification

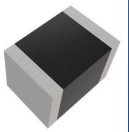


*Tolerance refers to varistor voltage.

Part Marking

No Marking

Varistors for High Voltage



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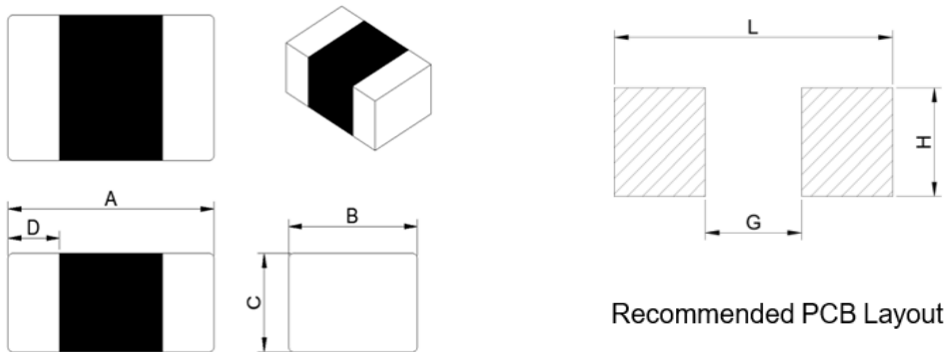


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RoHS/RoHS II Compliant
MSL Level = 2

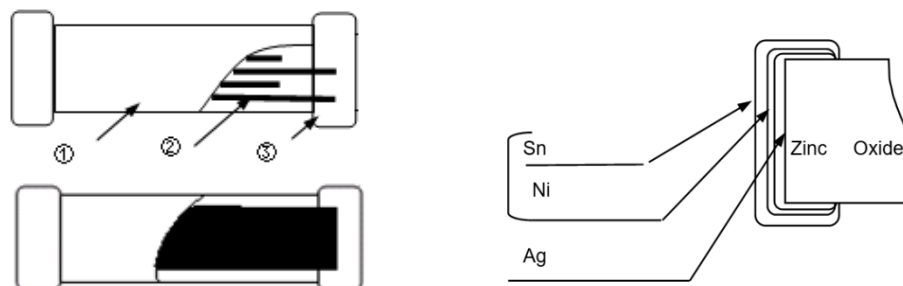
Mechanical Specifications



Series	A	B	C	D	L (ref)	G (ref)	H (ref)
AMCV-SH0806	2.2±0.2	1.6+0.4/-0.2	2.0	0.25 – 0.75	2.8 - 4.0	1.2 – 1.6	1.6 – 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)

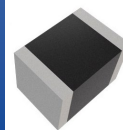


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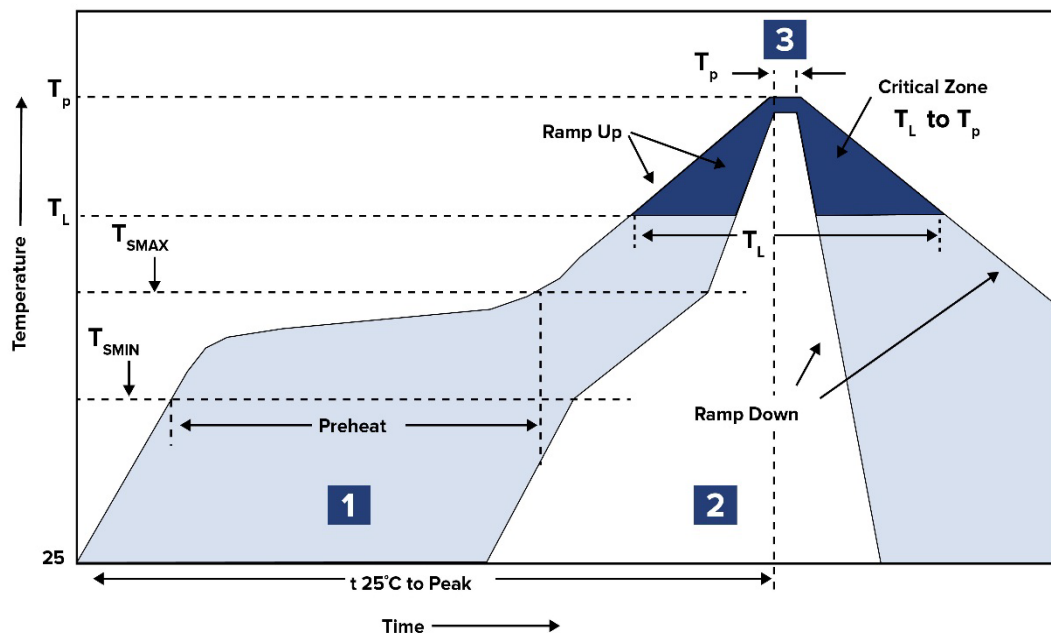


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2.2 x 1.6 x 2.0 mm
RoHS/RoHS II Compliant
MSL Level = 2

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L $\geq 217^\circ\text{C}$	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

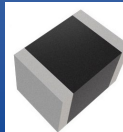


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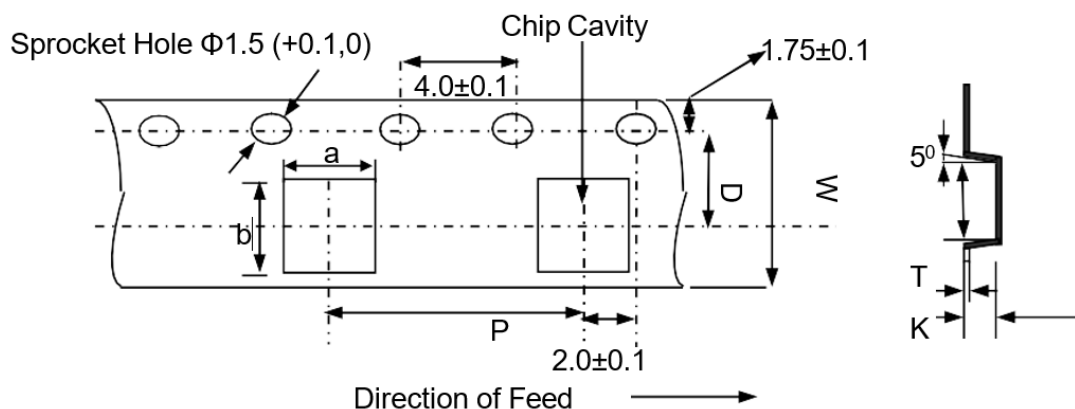
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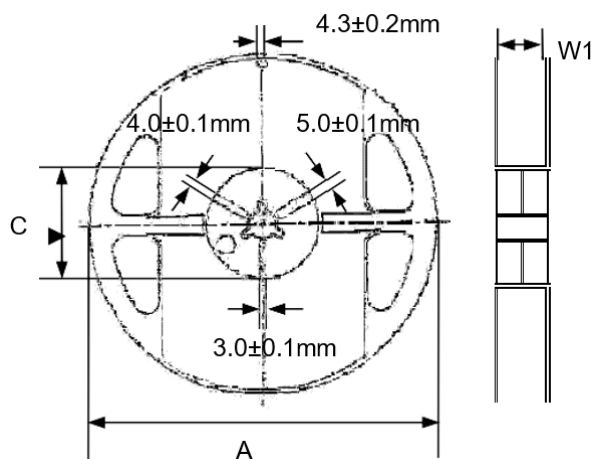
2.2 x 1.6 x 2.0 mm
RoHS/RoHS II Compliant
MSL Level = 2

Packaging

Tape & Reel: 2K pcs/reel



a	b	P	D	W	K	T
2.1	2.50	4.0	35.50	8.0	2.2	0.30



A	C	W1
178	58	8.4+1.5/-0.0

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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