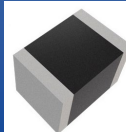


Varistors for Surge Protection



AMCV-SS0806

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

Features

- MLV (multi-layer varistor) construction for fast response.
- 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

- DC Power rail protection.
- Protection for industrial sensors and I/O.
- Relay and solenoid inductive coil surge suppression.
- Low power DC motor drives.
- Communication equipment like wired ethernet interfaces and wireless RF power modules.
- Battery powered and energy storage systems.
- Embedded microcontroller I/O protection.

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	Nominal Current 8/20μs
	DC	AC RMS						
Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps	Amps
Symbol	VDC	VAC	VB	VC	IC	E _T	I _P	I _N
AMCV-SS0806-090-401	9	6.4	14.0 [11.0-16.0]	30	5	0.5	400	250
AMCV-SS0806-180-401	18	12.7	25.0 [22.0-28.0]	45	5	0.5	400	250
AMCV-SS0806-180-601	18	12.7	25.0 [22.0-28.0]	45	5	0.8	600	400
AMCV-SS0806-300-600	30	21.3	42.0 [37.0-46.0]	70	5	0.08	60	40
AMCV-SS0806-300-401	30	21.3	42.0 [37.0-46.0]	70	5	0.5	400	250
AMCV-SS0806-380-401	38	30	50.0 [46.0-54.0]	80	5	0.7	400	250
AMCV-SS0806-480-301	48	34.1	60.0 [54.0-67.0]	110	5	0.7	300	200
AMCV-SS0806-560-301	56	40	68.0 [61.0-75.0]	125	5	0.7	300	200
AMCV-SS0806-600-301	60	46	76.0 [69.0-83.0]	130	5	0.7	300	200
AMCV-SS0806-650-301	65	50	82.0 [73.0-91.0]	135	5	0.7	300	200
AMCV-SS0806-850-201	85	60	100.0 [90.0-110.0]	165	5	0.7	200	120
AMCV-SS0806-101-201	100	75	120.0 [108.0-132.0]	200	5	0.7	200	120
AMCV-SS0806-121-700	125	95	150.0 [135.0-165.0]	260	5	0.3	70	45
AMCV-SS0806-121-151	125	95	150.0 [135.0-165.0]	260	5	0.5	150	100
AMCV-SS0806-151-101	150	115	180.0 [162.0-198.0]	325	5	0.5	100	70

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

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

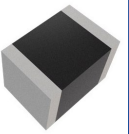


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Varistors for Surge Protection



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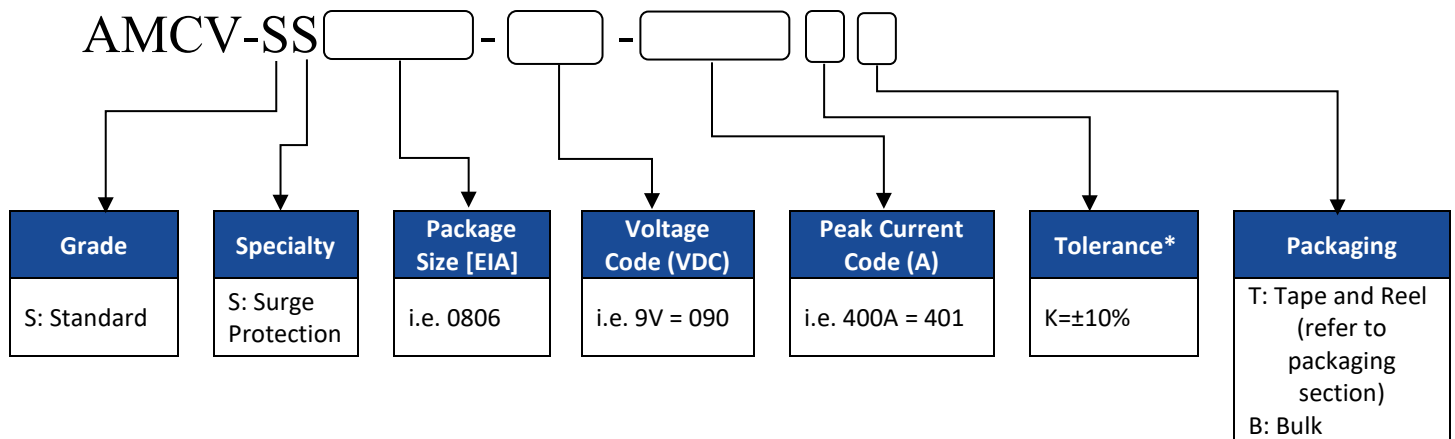
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RoHS/RoHS II Compliant
MSL Level = 2

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:

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

Part Number Identification



* Tolerance refers to varistor voltage.

Part Marking

No Marking

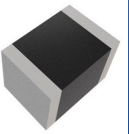


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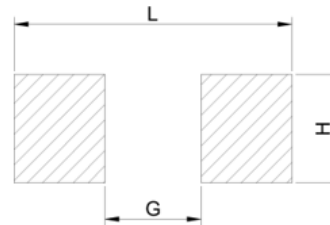
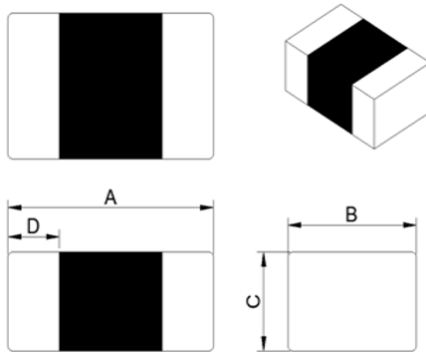


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Mechanical Specifications

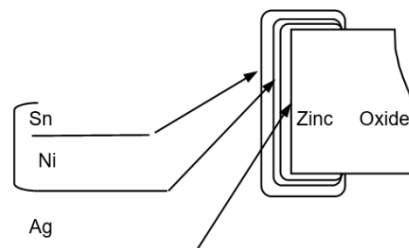
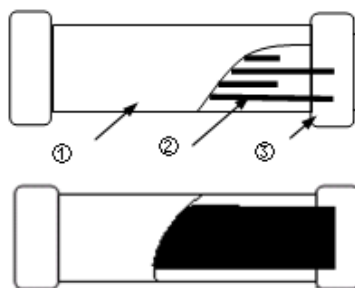


Recommended PCB Layout

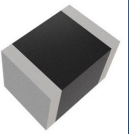
Series	A	B	C	D	L (ref)	G (ref)	H (ref)
AMCV-SS0806	2.2±0.2	1.6+0.4/-0.2	2.0 Max.	0.25~0.75	2.8 - 4.0	1.2 - 1.6	1.6 - 2.0

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)



AMCV-SS0806

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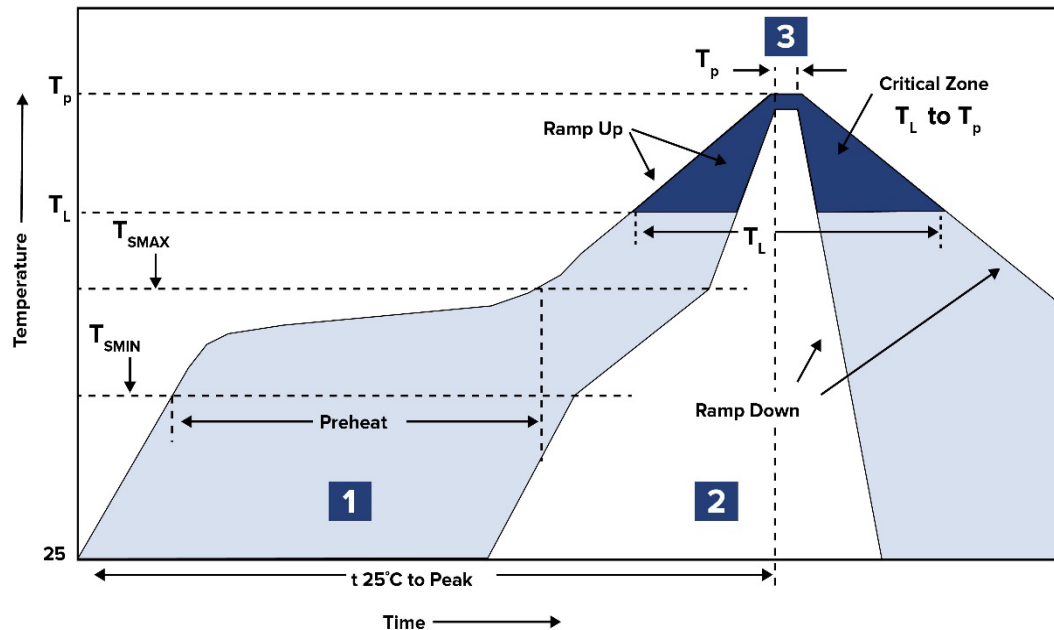


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Reflow Profile



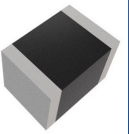
Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L $\geq 217^{\circ}C$	60 ~ 90 sec.
3	Peak heat	T_P 260°C Max.	10 sec. MAX

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

Max ramp up rate: 3°C/Sec

Max ramp down rate: 6°C/Sec

Varistors for Surge Protection



AMCV-SS0806

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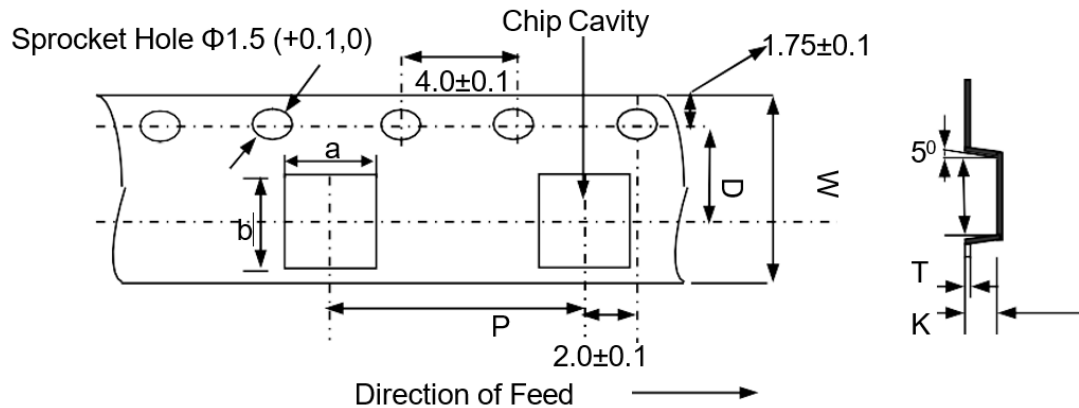
Check Inventory



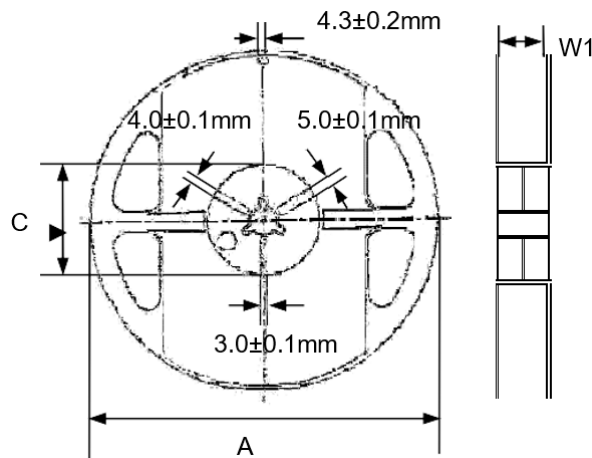
2.2 x 1.6 x 2.0 mm
RoHS/RoHS II Compliant
MSL Level = 2

Packaging

Tape & Reel: 2K pcs/reel



a	b	P	D	W	K	T
2.1 ± 0.1	2.50 ± 0.1	4.0 ± 0.1	3.5 ± 0.05	8.0 ± 0.3	2.20	0.30



A	C	W1
178 ± 2.0	58 ± 2.0	$8.4 + 1.5 / - 0.0$

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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