

#### **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)

#### **RoHS** Compliant



### ► 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 ~ +85°C

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

Part Number		Working oltage	Varistor Voltage	Max. Cl Volt		Rated Sing Trans		Typical Capacitance
Test Condition	< DC	20μA AC RMS	@1mA DC	8/20µs	ESD	Energy 10/1000μs	Peak Current 8/20µs	@1V <sub>rms</sub> , 1kHz
Units	Volts	Volts	Volts	Volts	Amps	Joules	Amps	pF
Symbol	V <sub>WDC</sub>	$V_{WAC}$	V <sub>B</sub>	V <sub>C</sub>	I <sub>C</sub>	E <sub>T</sub>	Ip	C <sub>P</sub>
AMCV-1812H-5R5	5.5	4.0	12.0 [10.0-14.0]	18	5.0	1.0	800	5500
AMCV-1812H-090	9	6.4	14.0 [12.0-16.0]	20	5.0	1.2	800	4800
AMCV-1812H-120	12	8.5	16.0 [13.0-19.0]	25	5.0	1.5	800	4200
AMCV-1812H-140	14	10.0	19.0 [16.0-22.0]	30	5.0	1.9	800	3800
AMCV-1812H-180	18	12.7	25.0 [22.0-28.0]	40	5.0	2.3	800	3200
AMCV-1812H-220	22	15.6	30.0 [26.0-34.0]	45	5.0	2.5	800	2400
AMCV-1812H-260	26	18.4	35.0 [31.0-38.0]	58	5.0	3.0	800	2000
AMCV-1812H-300	30	21.3	42.0 [37.0-46.0]	65	5.0	3.7	800	1500
AMCV-1812H-380	38	30.0	50.0 [46.0-54.0]	75	5.0	4.2	800	1100
AMCV-1812H-480	48	34.1	60.0 [54.0-67.0]	100	5.0	4.0	600	900
AMCV-1812H-560	56	40.0	68.0 [61.0-75.0]	120	5.0	4.3	600	800
AMCV-1812H-600	60	46.0	76.0 [69.0-83.0]	130	5.0	4.3	600	600
AMCV-1812H-650	65	50.0	82.0 [73.0-91.0]	140	5.0	4.0	600	500
AMCV-1812H-750	75	55.0	94.0 [85.0-103.0]	160	5.0	4.0	600	400
AMCV-1812H-850	85	60.0	100.0 [90.0-110.0]	170	5.0	4.0	600	300
AMCV-1812H-101	100	75.0	120.0 [108.0-132.0]	200	5.0	4.0	600	200

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

- a. Ambient Temperature: 20±15°C
- b. Relative Humidity: 65±20%
- c. 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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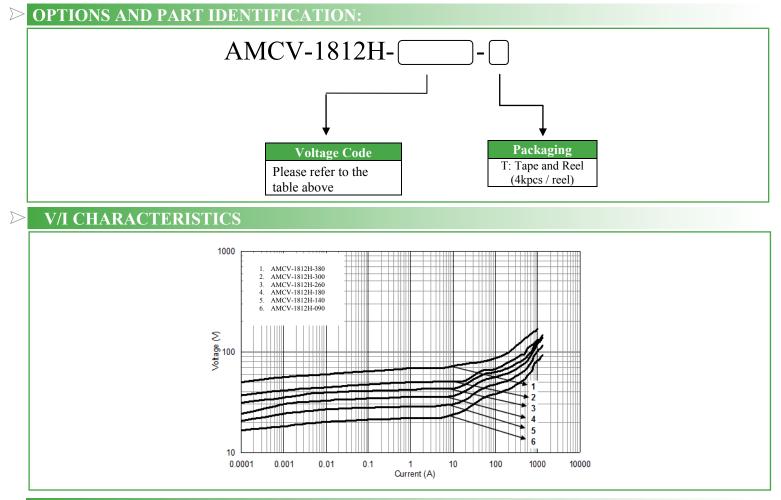
ABRACON IS ISO9001-2008 CERTIFIED

## AMCV-1812H

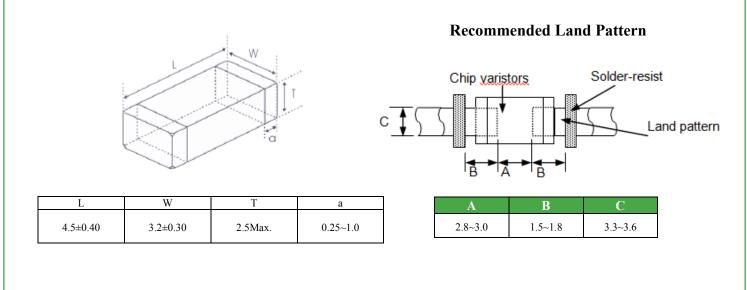


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## **OUTLINE DIMENSION:**



#### **Dimension: mm**



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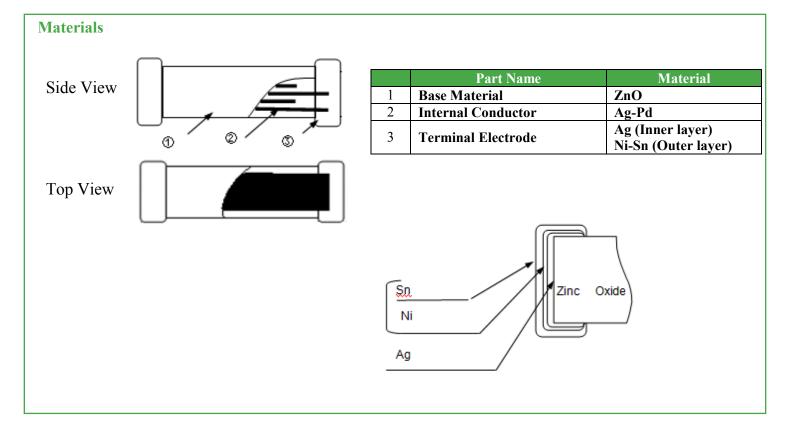
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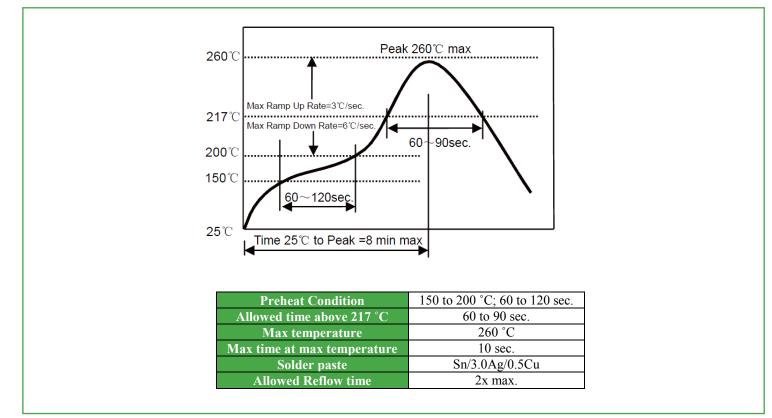


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### **REFLOW PROFILE:**





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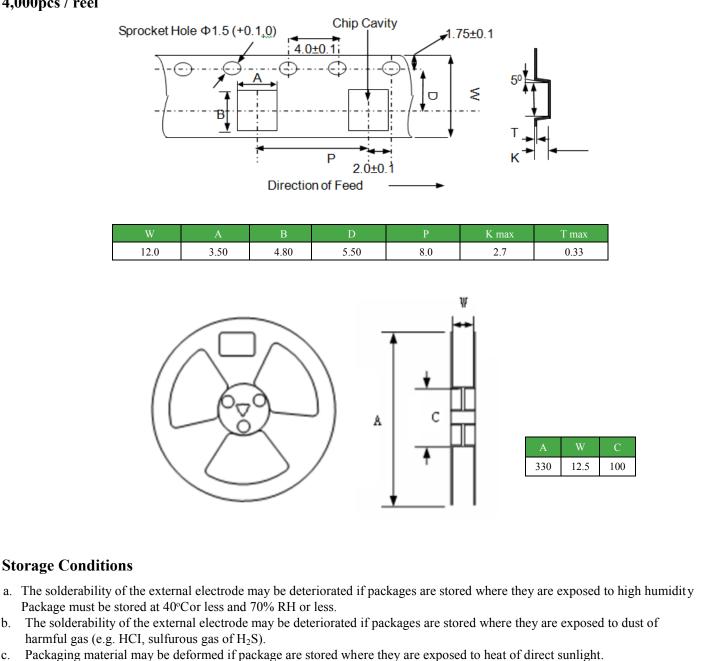
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## AMCV-1812H





b.



c. 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**

ATTENTION: Abracon LLC products are COTS - Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon LLCis required. Please contact Abracon LLC for more information.



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