

**1206HV Series** 

# Fast Acting | 0.126x0.064 inch Thick Film Chip Fuses

1206HV Series are the fuses set the industry standard for performance, reliability and quality. The solder-free design provides excellent on-off and temperature cycling characteristics during use and also makes our SMD fuses more heat and shock tolerant than typical subminiature fuses.

#### Features

- Compatible with reflow and wave solder
- Ceramic and glass construction
- Halogen free, lead free and RoHS compliant
- Excellent environmental integrity
- One time positive disconnect
- AEC-Q200 Automotive Grade Certified

#### Appications

- Flat panel displays and televisions
- Automotive infotainment and ECU
- Computer servers
- Portable electronics
- Mobile device chargers
- Power Battery Packs

### **Specification**

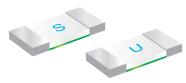
Part Number	Ampere Rating (A)	Voltage Rating (V)	Interrupting Rating	Typical Cold Resistance (Ohms)	Typical Melting I <sup>2</sup> t (A <sup>2</sup> Sec)	Typical Voltage Drop (V)	Marking Code
1206HV-R250	0.250	125Vac/dc	50A	3.598	0.02	1.406	.25
1206HV-R375	0.375	125Vac/dc	50A	1.875	0.13	0.717	E
1206HV-R500	0.500	125Vac/dc	50A	1.019	0.18	0.670	0.5
1206HV-R750	0.750	125Vac/dc	50A	0.790	0.43	0.988	.75
1206HV-1A	1.00	125Vac/dc	50A	0.270	0.69	0.305	Н
1206HV-1.25A	1.25	125Vac/dc	50A	0.169	1.7	0.283	-
1206HV-1.5A	1.50	125Vac/dc	50A	0.123	2.3	0.261	1.5
1206HV-2A	2.00	125Vdc	50A	0.081	3.1	0.199	Ν
1206HV-2.5A	2.50	125Vdc	50A	0.035	3.9	0.136	2.5
1206HV-3A	3.00	125Vdc	50A	0.031	5	0.131	Р
1206HV-3.5A	3.50	72Vdc	50A	0.024	12.2	0.135	3.5
1206HV-4A	4.00	72Vdc	50A	0.019	15	0.120	S
1206HV-5A	5.00	72Vdc	50A	0.016	17	0.099	Т

• DC Interrupting Rating - Measured at designated voltage, time constant < 50 microseconds.

DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C.</li>

• Typical Melting I<sup>2</sup>t measured at 10In Current.

• Typical Voltage Drop measured at rated current after temperature has stabilized.



#### **Electrical Characteristics**

Amp Rating	% of Amp Rating	Opening Time
0.25~5A	100%	4 Hours Min.
0.2J~JA	250%	5 Seconds Max.

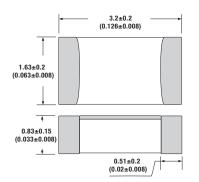


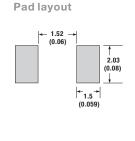
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#### Dimension

Unit: mm/inch

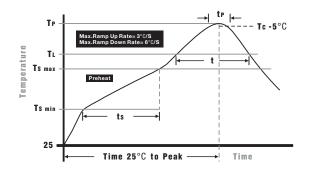




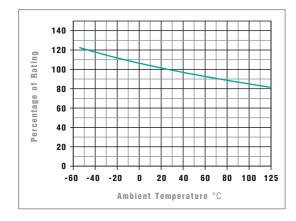
#### Packaging

- Quantity: 3,000pcs
- 8mm wide tape on 178mm(7 inch) diameter reel -specification EIA Standard 481.

#### **Soldering Parameters**



Wave Soldering: 260°C, 10 seconds max. Infrared Reflow: 260°C, 30 seconds max. IR Reflow Profile **Preheat Heat** Temperature min (Tsmin) 150°C 200°C Temperature max(Tsmax) 60 -120 seconds Time (Tsmin to Tsmax) (ts) Average ramp-up rate 3°C/second max. (Tsmax to Tp) Liquidous temperature (TL) 217°C Time at liquidous (tL) 60 - 150 seconds Peak temperature(Tp) 260+0/-5°C Time within 5°C of actual 10-30 seconds peak Temperature (tp) Average ramp-down rate 6°C/second max. (Tp to Tsmax) 8 minutes max. Time 25 °C to peak temperature



#### **Temperature Derating Curve**

Normal Operating Temperature: 23°C± 2
Operating T emperature: -55 to 125°C
The fuse rating is determined by the equation below:

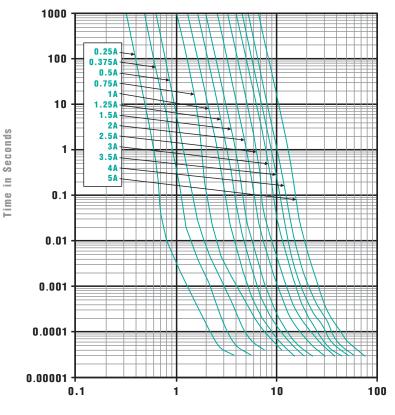
In=  $\frac{\text{linput max.}}{0.70 \text{ x Ktemp}}$ 



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### **Average Time Current Curves**



**Current in Amperes** 

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