

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

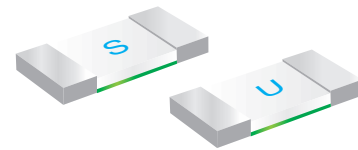
## 1206HV Series

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
- Lead Free and Halogen free material
- Rapid interruption of excessive current
- Excellent environmental integrity
- One time positive disconnect
- AEC-Q200 Automotive Grade Certified



### Applications

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

### Electrical Characteristics

Amp Rating	% of Amp Rating	Opening Time
0.25~5A	100%	4 Hours Min.
	250%	5 Seconds Max.
6~20A	350%	5 Seconds Max.

### 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	3.608	0.00012	1.407	0.25
1206HV-R375	0.375	125Vac/dc	50A	1.882	0.0003	0.718	E
1206HV-R500	0.500	125Vac/dc	50A	1.028	0.0005	0.650	0.5
1206HV-R750	0.750	125Vac/dc	50A	0.850	0.009	1.000	0.75
1206HV-1A	1.00	125Vac/dc	50A	0.240	0.0075	0.300	H
1206HV-1.25A	1.25	125Vac/dc	50A	0.175	0.009	0.290	-
1206HV-1.5A	1.50	125Vac/dc	50A	0.125	0.013	0.250	1.5
1206HV-2A	2.00	125Vdc	50A	0.080	0.04	0.200	N
1206HV-2.5A	2.50	125Vdc	50A	0.038	0.045	0.140	2.5
1206HV-3A	3.00	125Vdc	50A	0.032	0.065	0.130	P
1206HV-3.5A	3.50	72Vdc	50A	0.025	0.08	0.120	3.5
1206HV-4A	4.00	72Vdc	50A	0.020	0.11	0.110	S
1206HV-5A	5.00	72Vdc	50A	0.013	0.185	0.100	T
1206HV-6A	6.00	63Vdc/72Vdc	50A	0.0155	8	0.140	F
1206HV-7A	7.00	63Vdc/72Vdc	50A	0.0115	10	0.130	7
1206HV-8A	8.00	32Vdc/48Vdc	150A	0.0076	12	0.123	V
1206HV-10A	10.0	32Vdc/48Vdc	150A	0.0055	18	0.110	U
1206HV-12A	12.0	32Vdc/48Vdc	150A	0.0050	11.5	0.085	12
1206HV-15A	15.0	32Vdc/48Vdc	150A	0.0034	16.5	0.078	15
1206HV-20A	20.0	32Vdc/48Vdc	150A	0.0022	40	0.080	Q

- AC Interrupting Rating (measured at designated voltage, 100% power factor); DC Interrupting Rating (measured at designated voltage, time constant of less than 50 microseconds, battery source)
  - DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C Typical
  - Pre-arcing I<sup>2</sup>t are measured at 10In Current
- Specifications are subject to change without notice. Application testing is strongly recommended.

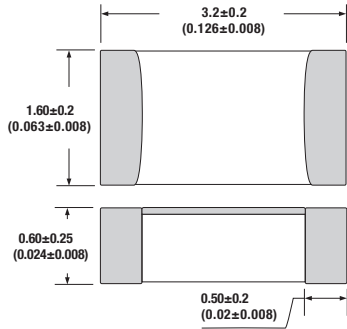
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## Thick Film Chip Fuses

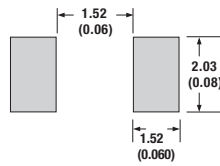
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### Dimension

Unit: mm/inch



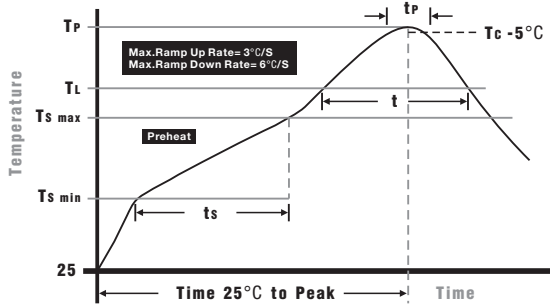
### Pad layout



### Packaging

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

### Soldering Parameters

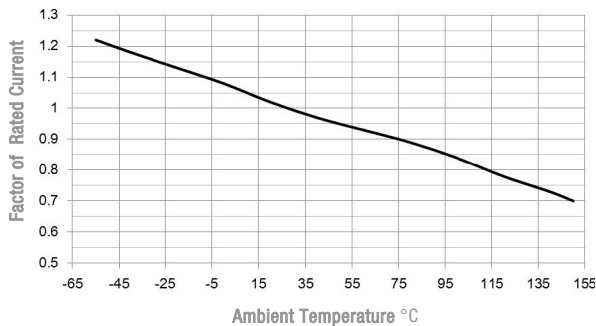


Wave Soldering: 260°C, 10 seconds max.  
Infrared Reflow: 260°C, 30 seconds max.

### IR Reflow Profile

<b>Preheat Heat</b>	
Temperature min (T <sub>min</sub> )	150°C
Temperature max (T <sub>max</sub> )	200°C
Time (T <sub>min</sub> to T <sub>max</sub> ) (ts)	60 -120 seconds
<b>Average ramp-up rate (T<sub>max</sub> to T<sub>p</sub>)</b>	
	3°C/second max.
<b>Liquidous temperature (T<sub>L</sub>)</b>	
Time at liquidous (t <sub>L</sub> )	60 - 150 seconds
<b>Peak temperature(T<sub>p</sub>)</b>	
	260+0/-5°C
<b>Time within 5°C of actual peak Temperature (t<sub>p</sub>)</b>	
	10 - 30 seconds
<b>Average ramp-down rate (T<sub>p</sub> to T<sub>max</sub>)</b>	
	6°C/second max.
<b>Time 25 °C to peak temperature</b>	
	8 minutes max.

### Temperature Derating Curve



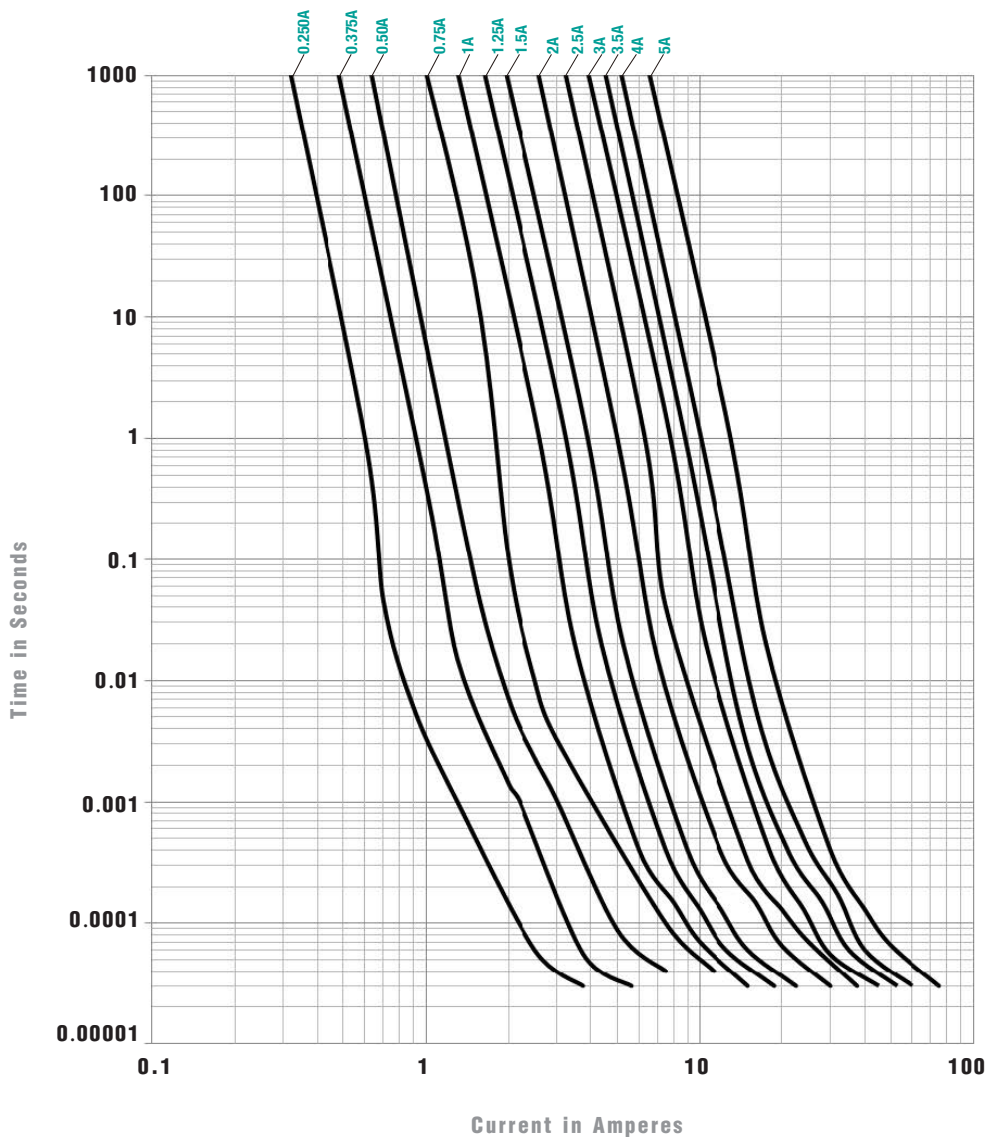
- Normal ambient temperature: 23+/-3 C
- Operating temperature: -55 ~ 150 C, with proper correction factor applied

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Average Time Current Curves

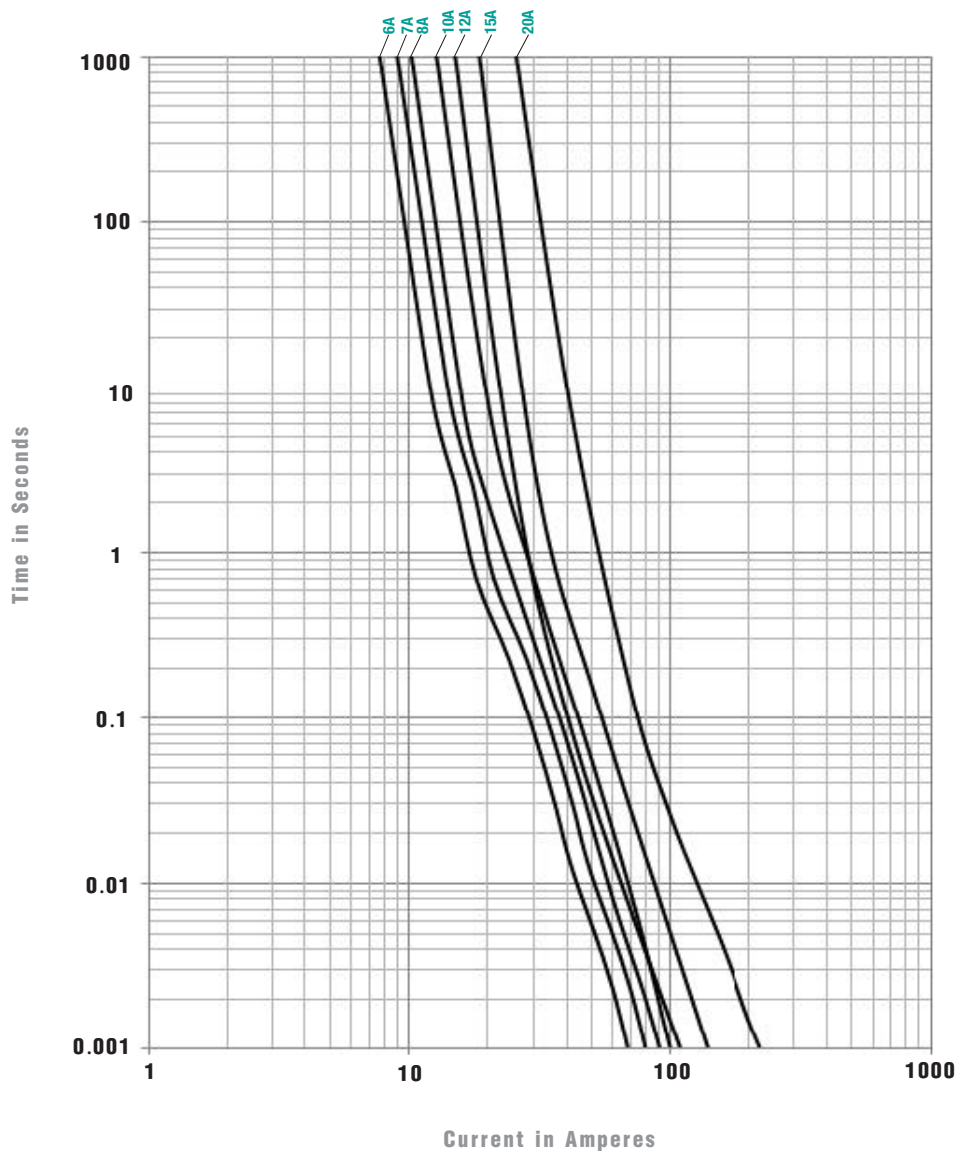


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Average Time Current Curves



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