

# Time Delay | 0.126x0.064 inch Thick Film Chip Fuses

## 1206TD AS

1206TD 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.

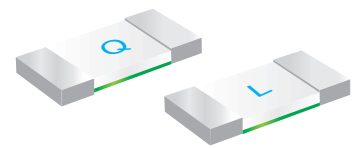


### Features

- High inrush current withstanding capability
- AEC-Q200 Automotive Grade Certified
- Compatible with reflow and wave solder
- Ceramic and glass construction Excellent environmental integrity
- One time positive disconnect
- Lead Free and Halogen free material

### Applications

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



### Electrical Characteristics

Rated Current	1.0In	2.5In	3.0In	3.5In	10.0In
4.5A~5A	4 hour min.	5 sec max.	0.1sec – 3sec	-	0.2ms – 20ms
6A~40A	4 hour min.	-	-	5 sec max.	0.2ms – 20ms

### Specifications

Part Number	Ampere Rating (A)	Voltage Rating	Interrupting Rating	Typical Cold Resistance (Ohms)	Typical Melting I <sup>2</sup> t (A <sup>2</sup> Sec)	Typical Voltage Drop (V)	Marking Code		
1206TD-4.5AS	4.50	72Vdc @ 50A		0.027	2.65	0.164	X		
1206TD-5AS	5.00			0.022	4	0.145	T		
1206TD-6AS	6.00			0.0145	12	0.140	F		
1206TD-7AS	7.00			0.0105	14	0.130	7		
1206TD-8AS	8.00			0.0070	16	0.123	V		
1206TD-10AS	10.0			0.0050	22	0.110	U		
1206TD-12AS	12.0			48Vdc @ 200A		0.0043	40	0.080	W
1206TD-15AS	15.0					0.0035	45	0.085	Y
1206TD-20AS	20.0					0.0022	50	0.080	Q
1206TD-25AS	25.0					0.00155	58	0.090	L
1206TD-30AS	30.0	0.00132	95			0.090	Z		
1206TD-40AS	40.0	32Vdc @ 200A				0.00085	240	0.095	XL
		36Vdc @ 200A							

◦ DC Interrupting Rating (Measured at rated 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. Choice fuse for surge application (USB charger etc.), make sure the I<sup>2</sup>t of fuse is 4 times than surge. Specifications are subject to change without notice. Application testing is strongly recommended.

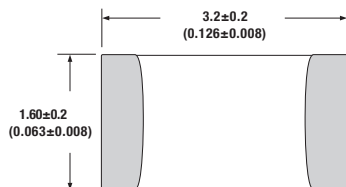
# Time Delay | 0.126x0.064 inch

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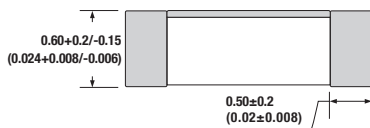
## 1206TD AS

### Dimension

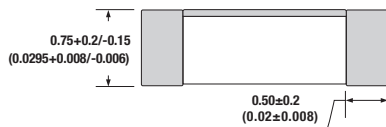
Unit: mm/inch



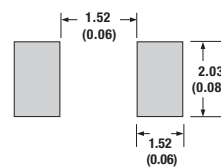
Side view: 4.5A-30A



Side view: 40A



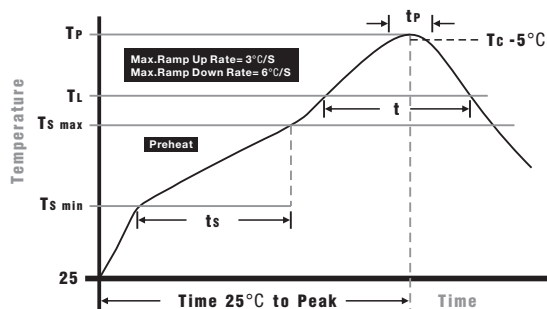
### Pad layout



### Packaging

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

### Soldering Parameters

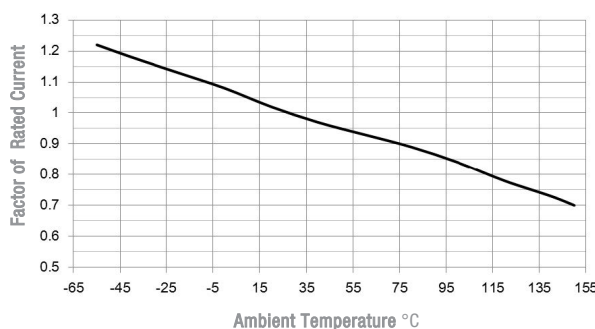


Wave Soldering: 260°C, 10 seconds max.  
Infrared Reflow: 260°C, 30 seconds max.

### IR Reflow Profile

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

### Temperature Derating Curve



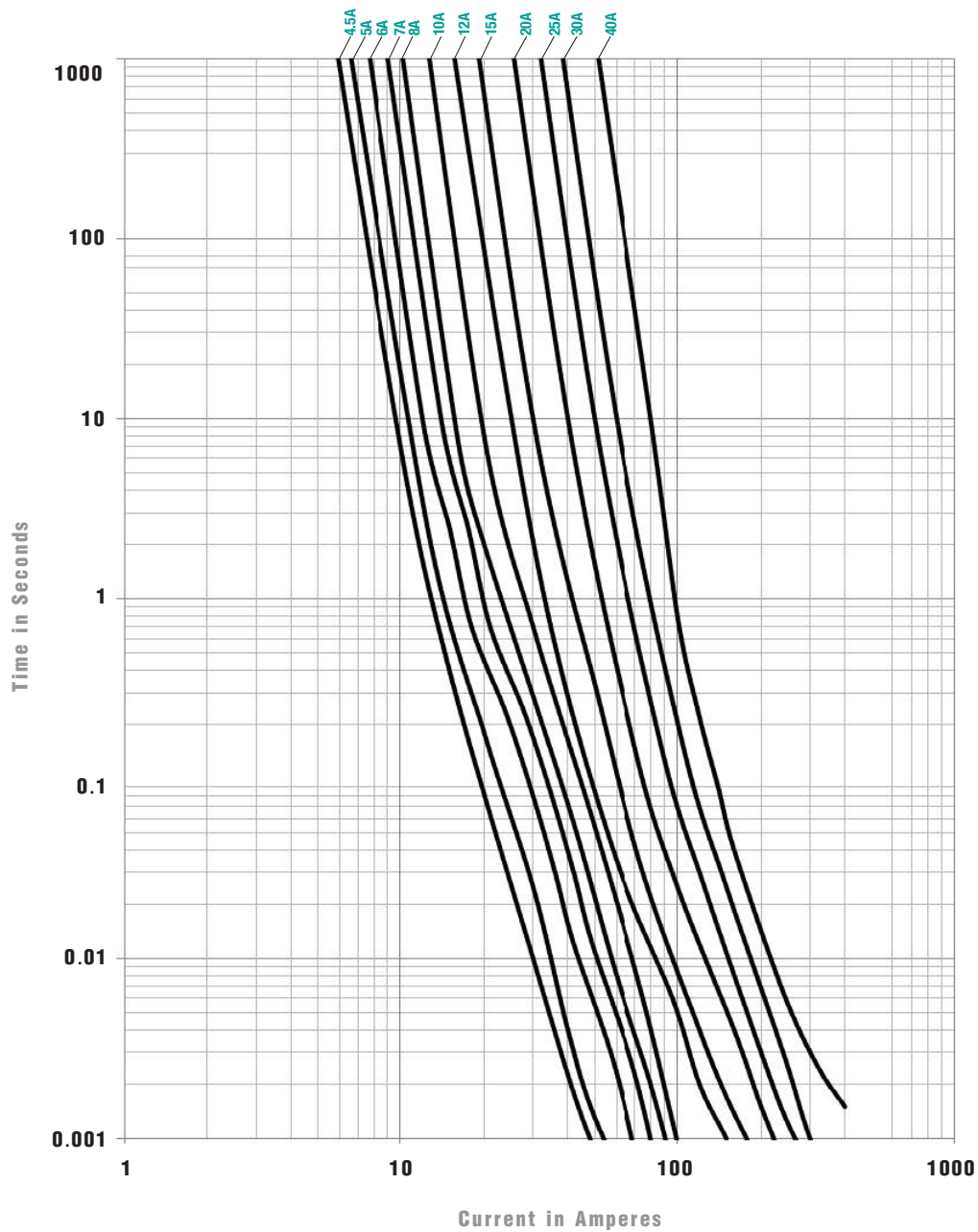
- Normal ambient temperature: 23+/-3°C
- Operating temperature: -55 ~ 150°C, with proper correction factor applied

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Average Time Current Curves



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[0308.250UR](#) [0308.375UR](#) [0308.500UR](#) [0308.750UR](#) [0308001.UR](#) [030801.5UR](#) [FCC16202ABTP](#) [F0603G0R03FNTR](#) [SKY87604-12](#)  
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