PROSEMI
Circuit Protection

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

Appications

- 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
4.5~40A	100%	4 Hours Min.
4.5~5A	250%	5 Seconds Max.
4.5~5A	300%	0.1sec~3sec
6~40A	350%	5 Seconds Max.
4.5~5A	1000%	0.2ms~20ms
6~40A		0.2ms~20ms

Specifications

Part Number	Ampere Rating (A)	Voltage Rating	Interrupting Rating	Typical Cold Resistance (Ohms)	Typical Melting I^2t (A^2Sec)	Typical Voltage Drop (V)	Marking Code
1206TD-4.5AS	4.50	72Vdc @ 50A 63Vdc @ 50A 32Vdc @ 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	48Vdc @ 150A 32Vdc @ 150A		0.0070	16	0.123	V
1206TD-10AS	10.0			0.0050	22	0.110	U
1206TD-12AS	12.0			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	36Vdc @ 200A 32Vdc @ 200A		0.00155	58	0.090	L
1206TD-30AS	30.0			0.00132	95	0.090	Z
1206TD-40AS	40.0			0.00085	240	0.095	XL

- 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^2t are measured at 10In Current

Choice fuse for surge application (USB charger etc.), make sure the I^2t of fuse is 4 times than surge.

Specifications are subject to change without notice. Application testing is strongly recommended.

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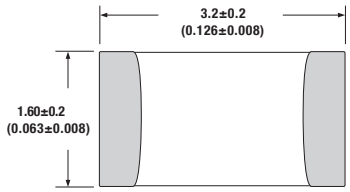
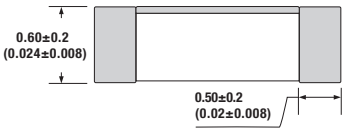
Thick Film Chip Fuses 1206TD s

Dimension

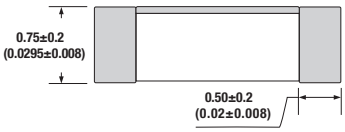
Unit: mm/inch



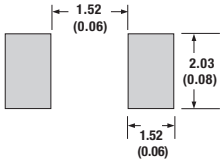
Side view: 4.5A-30A



Side view: 40A



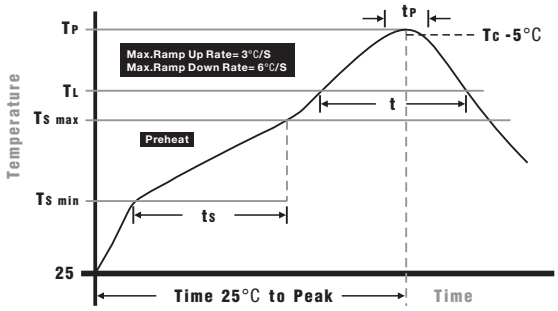
Pad layout



Packaging

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

Soldering Parameters

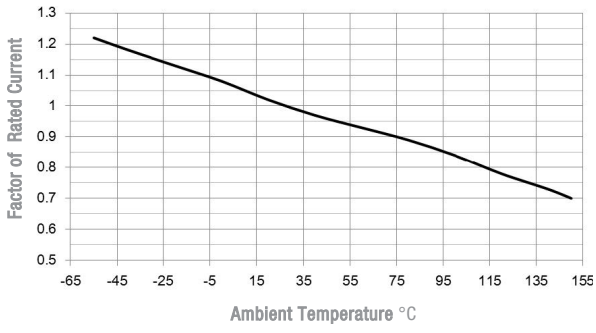


Wave Soldering: 260°C, 10 seconds max.
Infrared Reflow: 260°C, 30 seconds max.

IR Reflow Profile

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

Temperature Derating Curve



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

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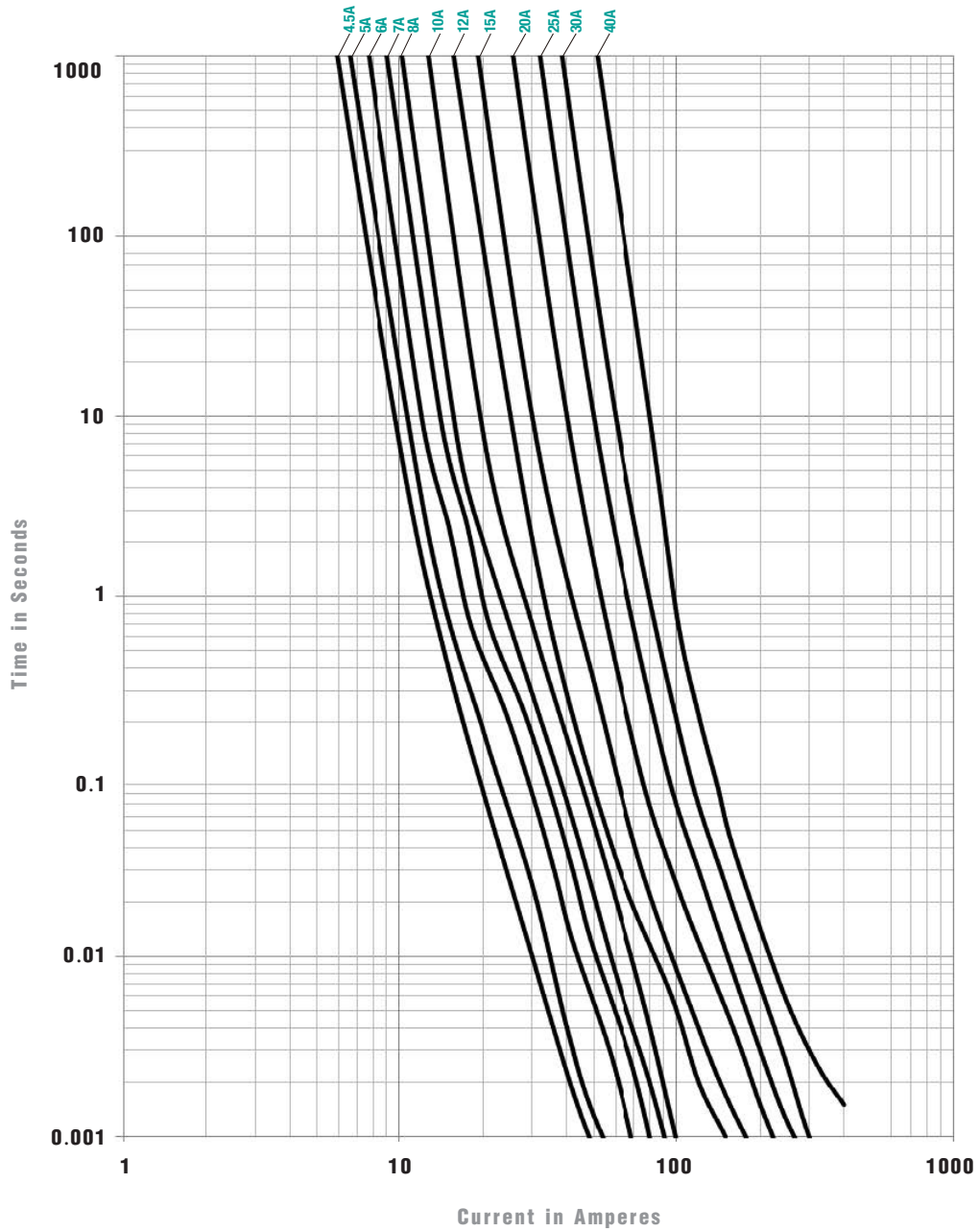
Average Time Current Curves



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