PROSEMI
Circuit Protection

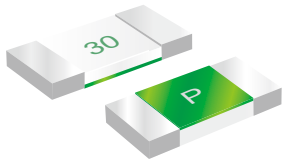
Fast Acting | 0.126x0.064 inch Thick Film Chip Fuses

1206FA Series

1206FA 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

- AEC-Q200 Automotive Grade Certified
- Rapid interruption of excessive current
- Compatible with reflow and wave solder
- Ceramic and glass construction
- One time positive disconnect
- Lead Free and Halogen free material



Electrical Characteristics

Amp Rating	% of Amp Rating	Opening Time
0.25~40A	100%	4 Hours Min.
0.25~5A	250%	5 Seconds Max.
6~40A	350%	5 Seconds Max.

Specification

Part Number	Ampere Rating (A)	Interrupting Rating | Voltage Rating	Typical Cold Resistance (Ohms)	Typical Melting I^2t (A^2Sec)	Typical Voltage Drop (V)	Marking Code
1206FA-R250	0.250	50A @ 72Vdc 50A @ 63Vdc 150A @ 32Vdc 300A @ 24Vdc	3.608	0.0004	1.407	.25
1206FA-R375	0.375		1.882	0.0008	0.718	E
1206FA-R500	0.500		1.028	0.0022	0.650	0.5
1206FA-R750	0.750		0.601	0.0057	0.616	.75
1206FA-1A	1.00		0.490	0.100	0.510	H
1206FA-1.5A	1.50		0.240	0.150	0.367	K
1206FA-2A	2.00		0.132	0.385	0.316	N
1206FA-2.5A	2.50		0.077	0.650	0.240	O
1206FA-3A	3.00		0.048	1.150	0.187	P
1206FA-3.5A	3.50		0.040	1.630	0.180	R
1206FA-4A	4.00		0.035	1.730	0.173	S
1206FA-4.5A	4.50	150A @ 32Vdc 300A @ 24Vdc	0.030	2.000	0.164	X
1206FA-5A	5.00		0.025	2.890	0.141	T
1206FA-6A	6.00		0.0165	11.00	0.142	F
1206FA-7A	7.00		0.0120	12.50	0.140	7
1206FA-8A	8.00	150A @ 32Vdc 300A @ 24Vdc	0.0085	14.00	0.110	M
1206FA-10A	10.0		0.0068	20.00	0.100	U
1206FA-12A	12.0		0.0050	9.20	0.085	12
1206FA-15A	15.0		0.0039	14.00	0.078	15
1206FA-20A	20.0		0.0018	47.17	0.060	20
1206FA-25A	25.0		0.0015	32.00	0.057	25
1206FA-30A	30.0		0.00125	43.00	0.068	30
1206FA-40A	40.0	200A @ 24Vdc 200A @ 32Vdc	0.00085	240.0	0.095	XL

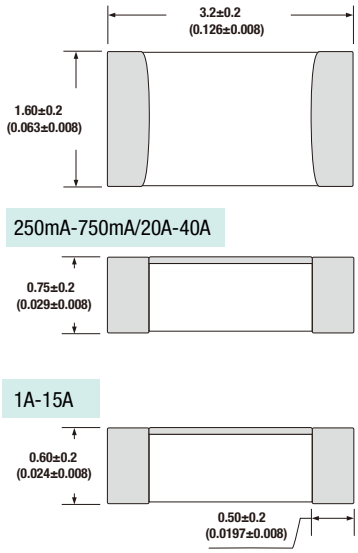
- DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C
- Typical Pre-arcing I^2t are measured at 10In Current

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

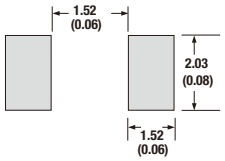
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Thick Film Chip Fuses — 1206FA Series

Dimension Unit: mm/inch



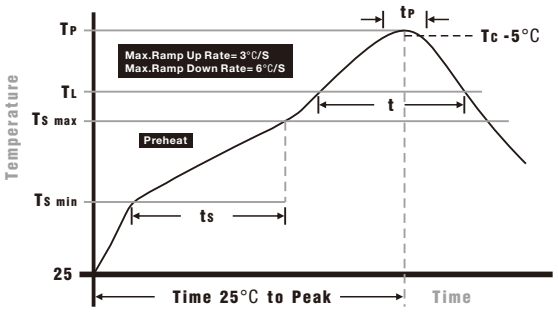
Pad layout



Packaging

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

Soldering Parameters

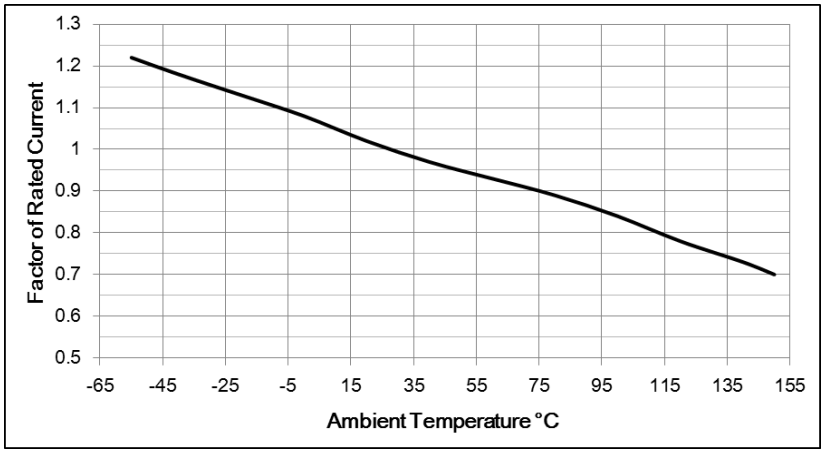


Wave Soldering: 260°C, 10 seconds max.
Infrared Reflow: 260°C, 30 seconds max.

IR Reflow Profile

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 (TL) **Time at liquidous (tL)**	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

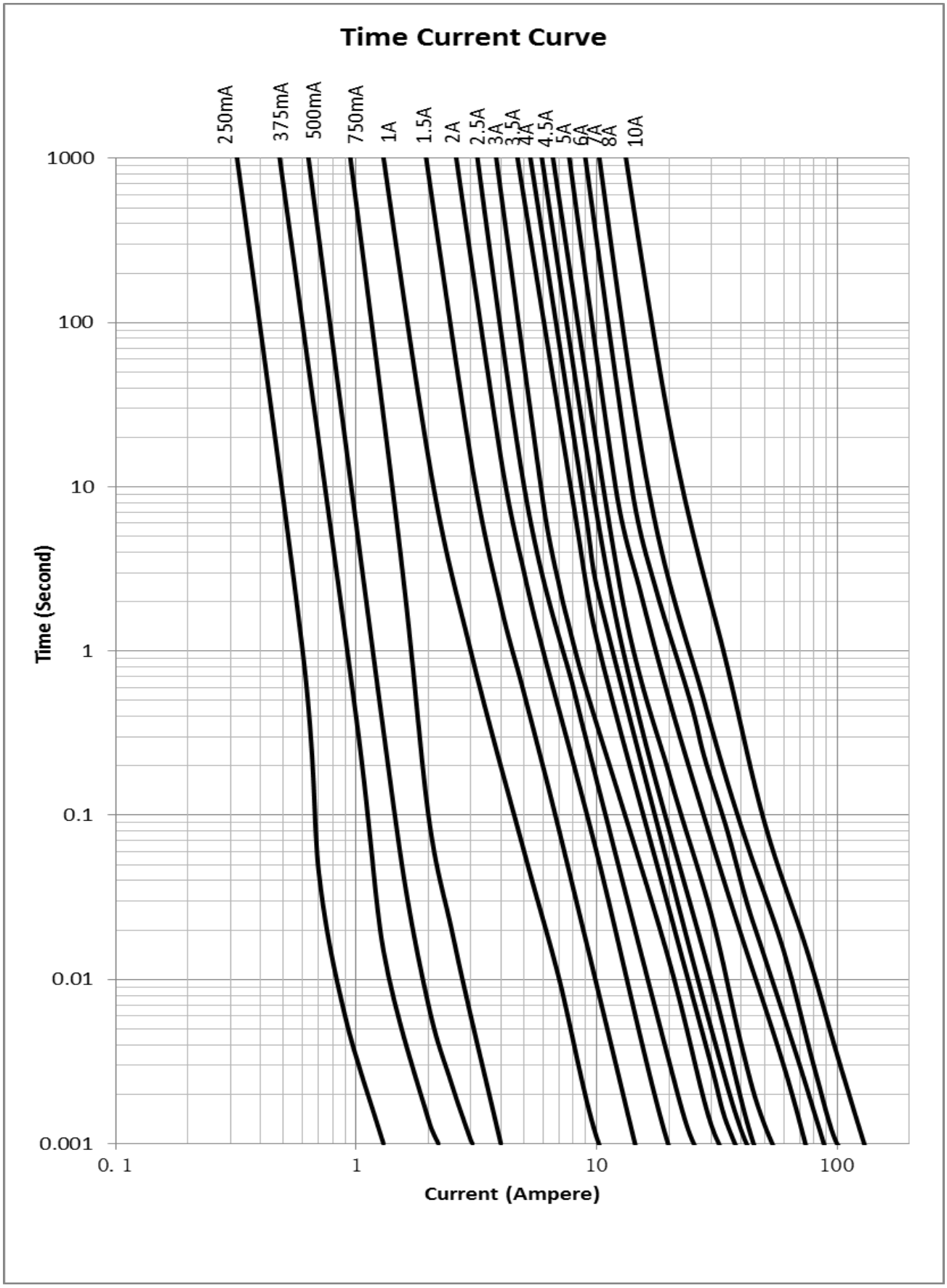


- Normal ambient temperature: 23+/-3℃
- Operating temperature: -55 ~ 150℃, with proper correction factor applied

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