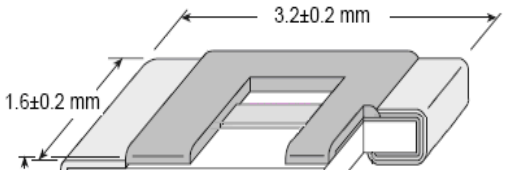
STEIFPOWER TECHNOLOGY

SP1206F Series
Fast Acting Chip Fuse

Description

- Fast acting for excessive current
- Compatible with reflow and wave solder
- Rugged ceramic and glass construction
- Excellent environmental performance
- RoHS Compliant, Lead Free & Halogen Free material

Dimensions



Case: 1206

Applications

- Telecommunication: PDA / DSL
- Computers: LCD Panels / Printers/ Laptops/ Servers
- Consumer Electronics: DVD players / MP3 and MP4 Players

Electrical Characteristics

Ampere Rating	% of Amp Rating	Opening Time
250mA-8A	100%	4 Hours Minimum
250mA-8A	250%	5 Seconds Maximum

Ordering

- Specify Packaging and product code

(i.e. SP1206F250-TR)

SP1206 F 250 – TR

Series (1206size)
F (Fast Acting)
Packaging Code
Ampere Rating

Note: TR: 5,000 pieces of fuses on 8mm tape and reel on a 7 inch (178mm) reel per EIA Standard 481

Electrical Specifications

Product Code	Current Rating	Voltage Rating		Interrupting Rating*	Resistance (ohms)**	Typical Melt I^2t ***	Alpha Code Marking
		AC	DC	AC/DC	Typ.	DC (A^2s)	
SP1206F250	250mA	32V	63V	50A	4.1	0.0004	D
SP1206F375	375mA	32V	63V	50A	2.21	0.0008	E
SP1206F500	500mA	32V	63V	50A	1.5	0.0018	F
SP1206F750	750mA	32V	63V	50A	0.6	0.0055	G
SP1206F1	1A	32V	63V	50A	0.26	0.030	H
SP1206F1.25	1.25A	32V	63V	50A	0.24	0.046	J
SP1206F1.5	1.5A	32V	63V	50A	0.12	0.083	K
SP1206F1.75	1.75A	32V	63V	50A	0.1	0.090	M
SP1206F2	2A	32V	63V	50A	0.072	0.110	N
SP1206F2.5	2.5A	32V	63V	50A	0.051	0.240	O
SP1206F3	3A	32V	63V	50A	0.038	0.255	P
SP1206F3.5	3.5A	32V	32V	50A	0.025	0.280	R
SP1206F4	4A	32V	32V	50A	0.02	0.305	S
SP1206F4.5	4.5A	32V	32V	50A	0.017	0.395	X
SP1206F5	5A	32V	32V	50A	0.016	0.500	T
SP1206F6	6A	32V	32V	50A	0.012	2.064	Y
SP1206F7	7A	32V	32V	50A	0.01	2.720	U
SP1206F8	8A	32V	32V	50A	0.008	4.630	8

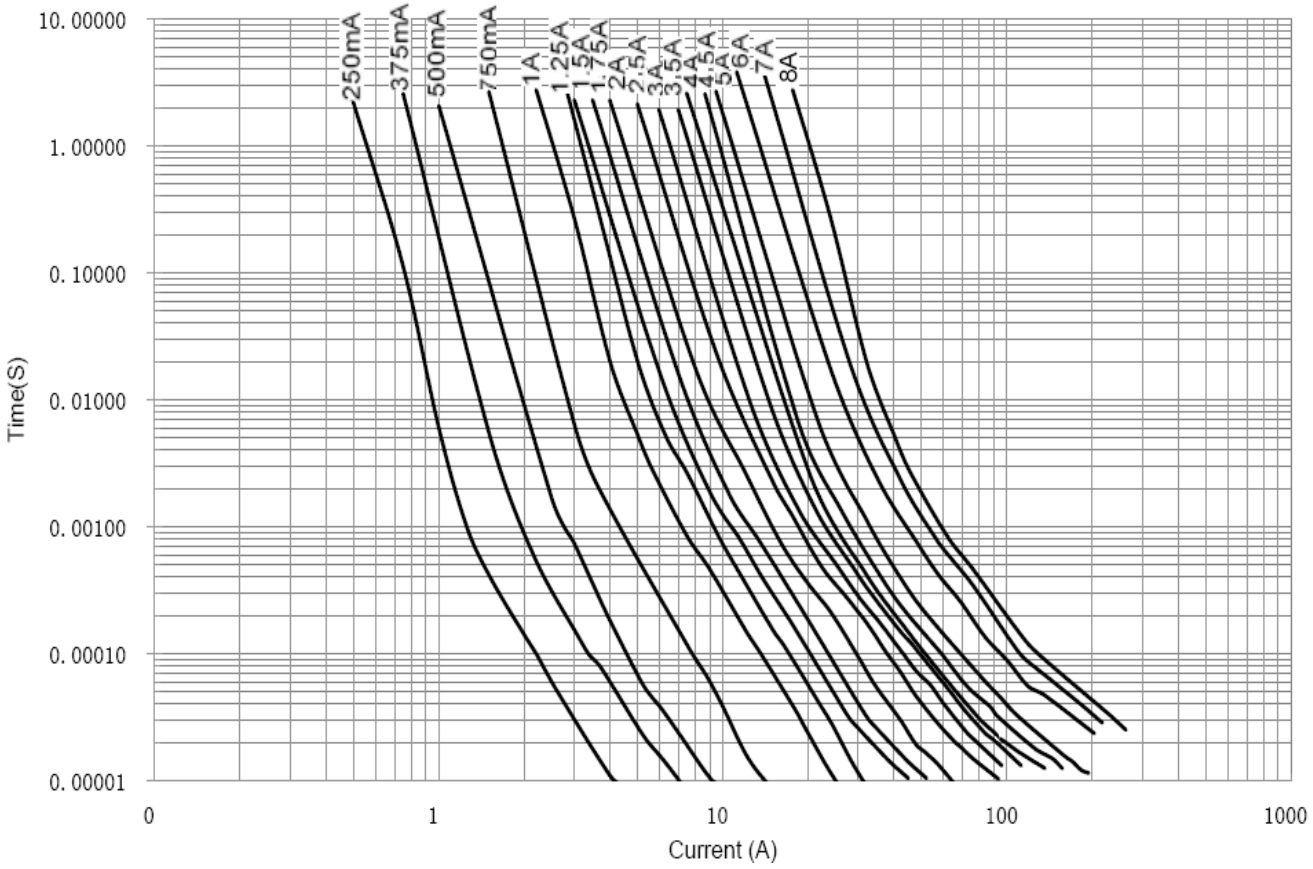
*AC Interrupting Rating (Measured at rated voltage with a unity power factor); DC interrupting rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

**DC Cold Resistance (Measured at 10% of rated current)

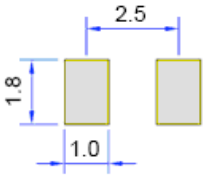
*** Typical Melting I2t (Measured with a battery bank at rated DC voltage, 10x-rated current, not to exceed IR, time constant of calibrated circuit less than 50 microseconds) (S1206F6A,7A &8A measured at interrupting rating)

Device designed to carry rated current for four hours minimum. An operating current of 75% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

Time Current Curve



Land Pattern (mm)



Soldering Method

- Wave soldering: 260°C, 10sec max.

Reflow soldering: 260°C, 30sec max.

Environmental Data

- Life Test: MIL-STD-202, Method 108D
- Humidity Bias: MIL-STD-202 , Method 103
- Moisture Resistance Test: MIL-STD-202, Method 106G
- Thermal Shock: MIL-STD-202, Method 107G
- Terminal Strength: AEC-Q200-006
- Board Flex: AEC-Q200-005
- Vibration: MIL-STD-202, Method 204C
- Mechanical Shock: MIL-STD-202, Method 213C
- Solderability: MIL-STD-202, Method 208H
- Resistance to Solder Heat: MIL-STD-202,Method 210B