

### Application:

- ✧ Consumer Electronics
- ✧ Home appliances
- ✧ Power Supply device
- ✧ Telecommunication System
- ✧ Automotive Device
- ✧ Industrial Equipment
- ✧ Medical Equipment
- ✧ Battery Charging Device

### Features:

- ✧ Ceramic & Glass Material Structure
- ✧ Rapid interruption of Over-Current
- ✧ Support Reflow and Wave Soldering
- ✧ One time Positive disconnect
- ✧ RoHS Compliant

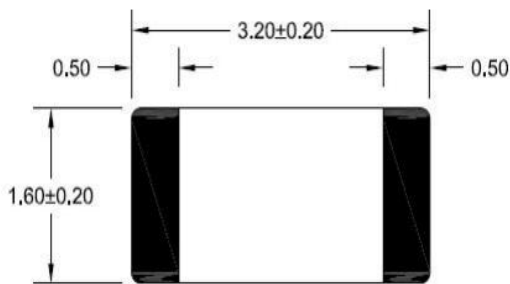


### Naming Rule:

<b>T</b>	<b>1206</b>	<b>A</b>	<b>-</b>	<b>xxA</b>
1	2	3		4

1. F-Fast Acting, T-Time Lag
2. Dimensions
3. Rated Voltage  
(A-24V B-32V C-63V D-72V)
4. Rated Current

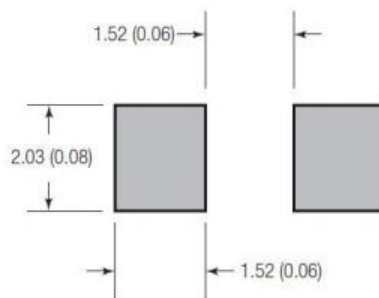
### Structure:(Unit:mm)



**Fig1.1 Top View**



**Fig1.2 Side View**



**Recommended land pattern**

**Ordering Information:※=A:24V / B:32V / C:63V/ D:72V**

Part No .	Rated Voltage DC		Rated Current (A)	Breaking Capacity (A) <sup>1</sup>	Typical Cold Resistance (mOhms) <sup>2</sup>	Typical Voltage Drop (mV)	Typical Pre-Arcing I2t (A2Sec) <sup>3</sup>	Alpha Mark
T1206※-0.63A	72V	63V	0.63	50A	1080	950	0.009	B
T1206※-0.75A			0.75	50A	850	900	0.01	0.75
T1206※-1A			1	50A	480	510	0.11	H
T1206※-1.25A			1.25	50A	330	500	0.15	H
T1206※-1.5A			1.5	50A	230	367	0.17	K
T1206※-1.75A			1.75	50A	180	450	0.20	E
T1206※-2A			2	50A	135	316	0.41	N
T1206※-2.5A			2.5	50A	75	240	0.68	O
T1206※-3A			3	50A	47	187	1.5	P
T1206※-3.5A			3.5	50A	38	180	2	R
T1206※-4A			4	50A	34	173	2.5	S
T1206※-4.5A	32V	24V	4.5	50A@32Vdc 300A@24Vdc	29	164	2.65	X
T1206※-5A			5	50A@32Vdc 300A@24Vdc	24	145	4	T
T1206※-6A			6	50A@32Vdc 300A@24Vdc	16	140	12	F
T1206※-7A			7	50A@32Vdc 300A@24Vdc	12.3	130	14	7
T1206※-8A			8	300A@24Vdc 150A@32Vdc	8.3	123	16	M
T1206※-10A			10	300A@24Vdc 150A@32Vdc	6.5	110	22	U
T1206※-12A			12	300A@24Vdc 150A@32Vdc	5	85	11.5	12

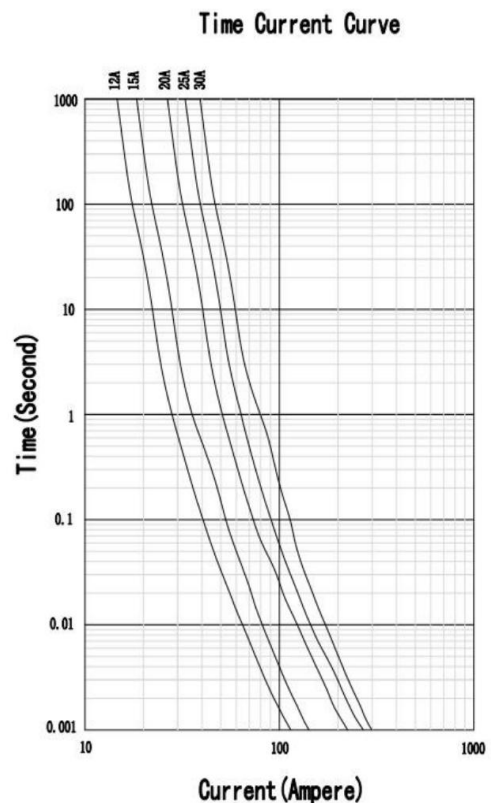
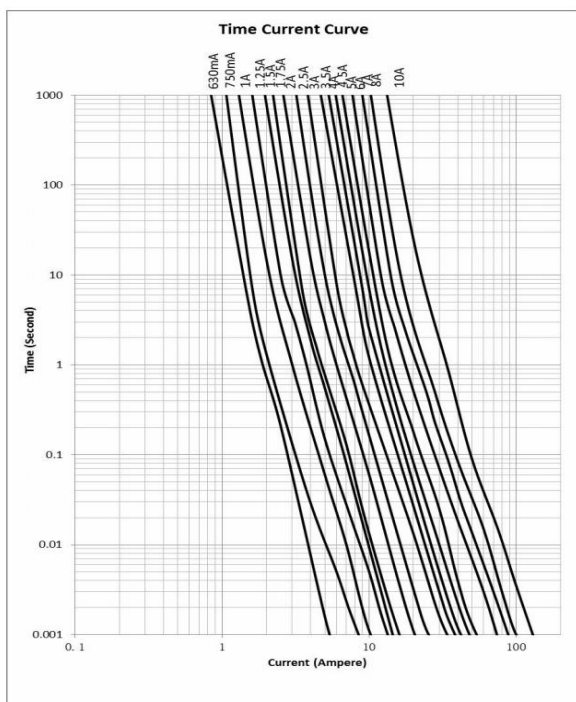
T1206※-15A	32V	24V	15	300A@24Vdc 150A@32Vdc	3.7	78	16.5	15
T1206※-20A			20	300A@24Vdc 150A@32Vdc	2.4	80	50	Q
T1206※-25A			25	300A@24Vdc 150A@32Vdc	1.6	90	60	L
T1206※-30A			30	300A@24Vdc 150A@32Vdc	1.3	90	100	Z

- 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 10I<sub>n</sub> Current Choice fuse for surge application (USB charger etc.), make sure the I<sup>2</sup>t of fuse is 4 times than surge.

### Electrical Specifications:

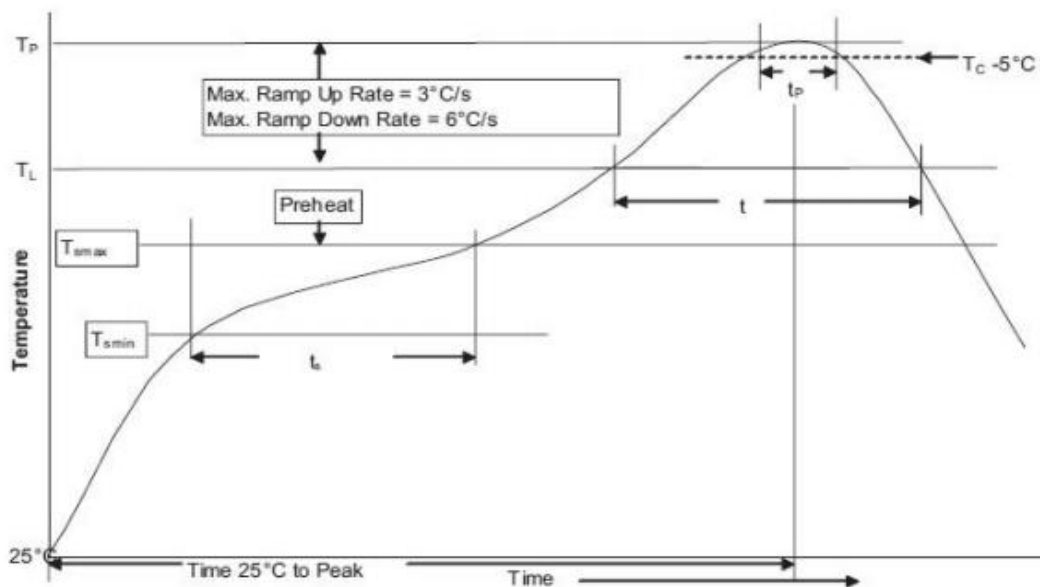
Rated Current	1.0I <sub>n</sub>	2.0I <sub>n</sub>	2.5I <sub>n</sub>	3.0I <sub>n</sub>	3.5I <sub>n</sub>	10.0I <sub>n</sub>
0.63A~3A	4 hour min	1sec – 60sec	5 sec max	0.1sec – 3sec		0.2ms – 20ms
3.5~5A	4 hour min		5 sec max	0.1sec – 3sec		0.2ms – 20ms
6A~30A	4 hour min		-	-	5 sec max.	0.2ms – 10ms

### Time current Curve:



**Soldering method**

- Wave solder
  - Reservoir temperature: 260°C
  - Time in reservoir: 10 seconds maximum
- Infrared reflow
  - Temperature: 260°C
  - Time: 30 seconds maximum

**Solder reflow profile**


Profile Feature		Lead(Pb) free solder
Preheat and soak	• Temperature min.( $T_{smin}$ )	150°C
	• Temperature max. ( $T_{smax}$ )	200°C
	• Time ( $T_{smin}$ to $T_{smax}$ ) (ts)	60 120 Seconds
Average ramp up rate $T_{smax}$ to $T_P$		3°C / Second Max.
Liquidous temperature ( $T_L$ )		217°C
Time at liquidous ( $t_L$ )		60 150 Seconds
Peak package body temperature ( $T_P$ )		260°C
Time ( $t_p$ ) within 5°C of the specified classification temperature ( $T_c$ )		30 Seconds
Average ramp-down rate ( $T_P$ to $T_{smax}$ )		6°C / Second Max.
Time (25°C to Peak Temperature)		8 Minutes Max.

## **Packing Information:**

3000 fuses on 8mm tape-and-reel on a 7 inch (178mm) reel per EIA Standard 481 .

## **CONTACT INFORMATION**

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