



Description

WT1206-F 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.



Electrical Characteristics			
Rated Current	1.0In	2.5In	3.5In
250mA~5A	4 hour min.	5 sec max.	-
6A~30A		-	5 sec max.

Features

- 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

Specifications

Part No.	Rated Voltage DC		Rated Current (A)	Specification			Typical Cold Resistance (mOhms) ²	Typical Voltage Drop (mV)	Typical Pre-Arcing I ² t (A ² Sec) ³	Alpha Mark
				Breaking Capacity ¹						
				72V	32V	24V				
WT1206-0.25F	72V	32V	0.25	50A	50A	150A	3608	1407	0.0004	.25
WT1206-0.375F			0.375				1882	718	0.0008	E
WT1206-0.5F			0.5				1028	650	0.0022	0.5
WT1206-0.75F			0.75				601	616	0.0057	.75
WT1206-1.00F			1				490	510	0.10	H
WT1206-1.25F			1.25				165	184	0.021	▲
WT1206-1.50F			1.5				240	367	0.15	K
WT1206-2.00F			2				144	316	0.41	N
WT1206-2.50F			2.5				83	240	0.65	O
WT1206-3.00F			3				53	187	1.39	P
WT1206-3.50F			3.5				40	180	1.68	R
WT1206-4.00F			4				35	173	1.73	S
WT1206-4.50F			4.5				27	164	2.62	X
WT1206-5.00F			5				22	141	2.89	T
WT1206-6.50F			6.5				16	140	3.4	6.5
WT1206-7.00F	7	12	140	5.68	7					
WT1206-10.00F	10	4.4	59	2.16	U					
WT1206-12.00F	12	3.8	67	7.11	12					
WT1206-15.00F	15	2.9	66	23.89	15					
WT1206-20.00F	-	-	20	-	200A	1.6	60	47.17	20	
WT1206-25.00F	-	-	25	-	250A	1.4	57	32	25	
WT1206-30.00F	-	-	30	-	300A	1	68	43	30	

* DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)

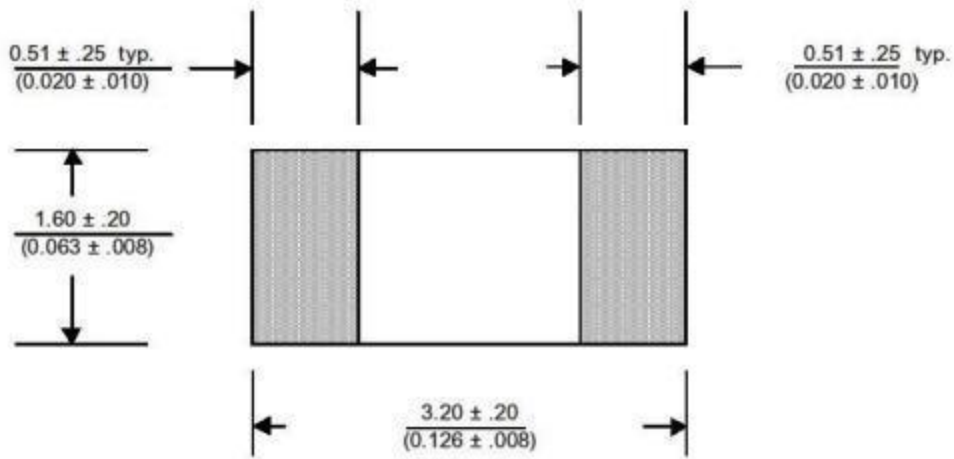
* DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C

* Typical Pre-arching I²t are measured at 10In Current

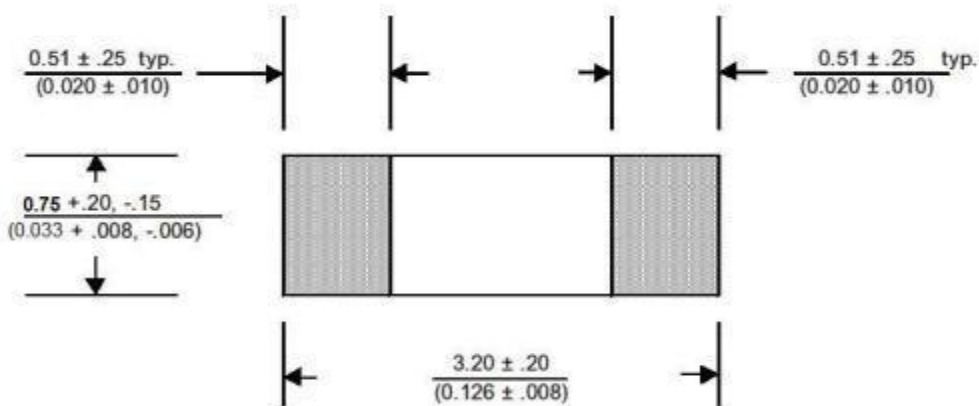
Dimension

Drawing not to scale (Unit: mm/inch)

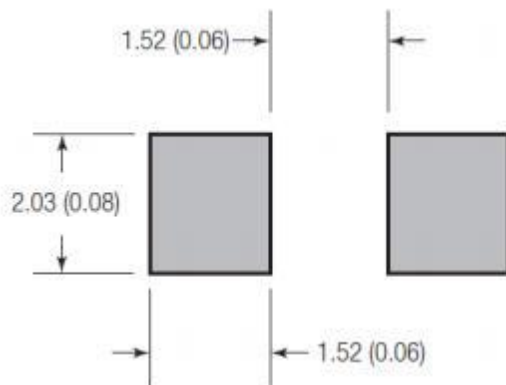
Top view

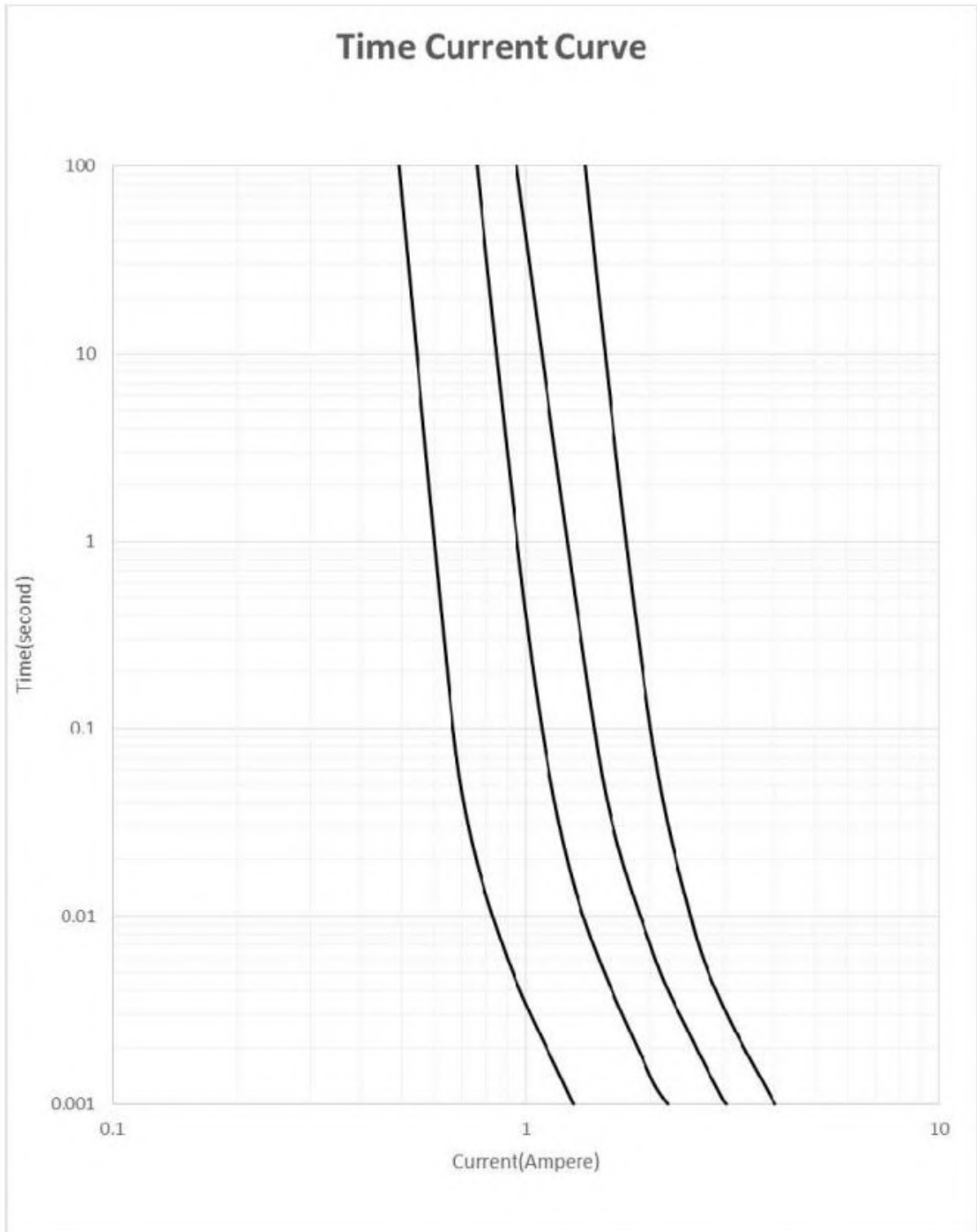


Side view



Recommended land pattern (Unit: mm/inch)

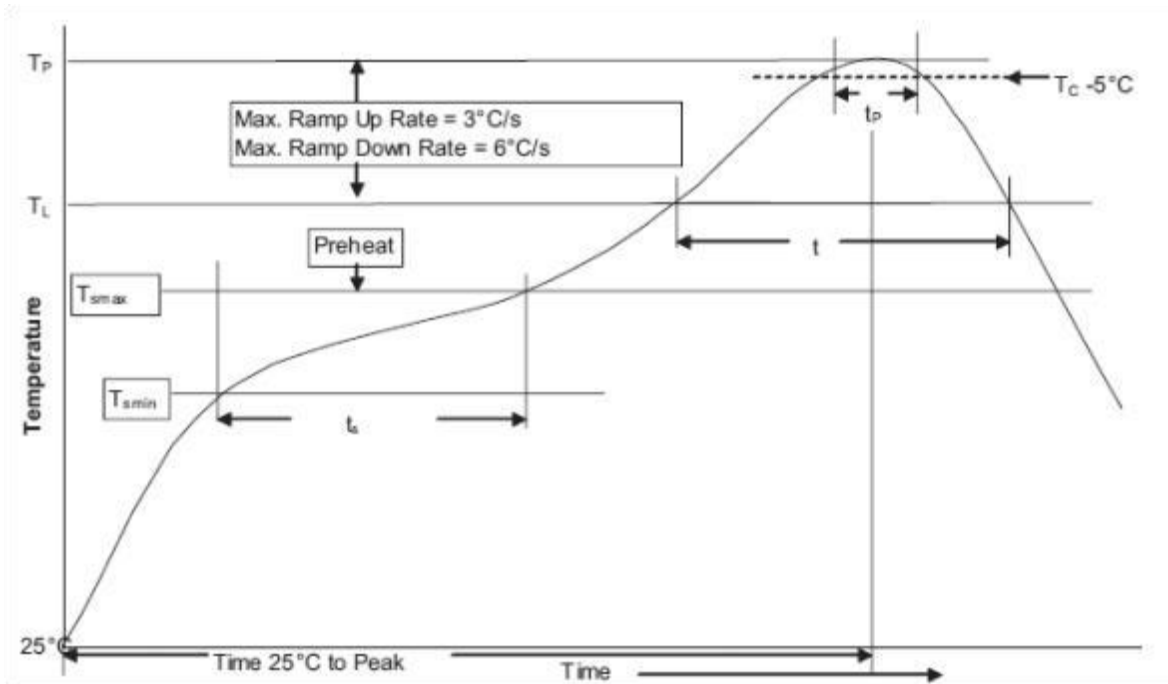




Soldering method

- 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}) (t_s)	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.

Package

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