

FXXXXX-1206F Series Fuse

Description

TXXXXX-1206F 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 fuse

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



Electrical Characteristics for Series

Electrical Characteristics			
Rated Current	1.0In	2.5In	3.5In
0.25~5A	4 hour min	5sec max.	-
6A~30A	4 hour min	-	5sec max.

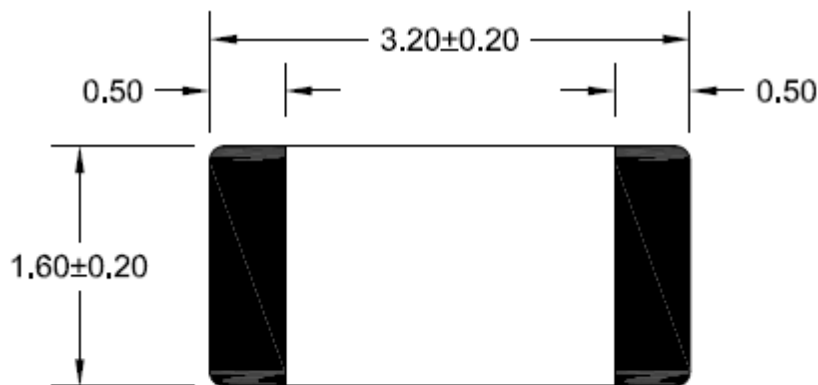
Specifications

Part No.	Rated Voltage	Rated current A	Breaking Capacity(A) ¹	Typical Cold Resistance (mOhms) ²	Typical Voltage Drop(mV)	Typical pre-Arcing I ² T (A ² Sec) ³	Alpha Mark
	DC						
F00250-1206F	72V 63V 32V 24V	0.250	50A@72V 50A@63V 50A@32V 300A@24V	3608	1407	0.0004	.25
F00375-1206F		0.375		1882	718	0.0008	E
F00500-1206F		0.500		1028	650	0.0022	0.5
F00750-1206F		0.750		601	616	0.0057	.75
F01000-1206F		1		490	510	0.10	H
F01500-1206F		1.5		240	367	0.15	K
F02000-1206F		2		144	316	0.41	N
F02500-1206F		2.5		83	240	0.65	O
F03000-1206F		3		53	187	1.39	P
F03500-1206F		3.5		40	180	1.68	R
F04000-1206F		4		35	173	1.73	S
F04500-1206F	32V 24V	4.5	50A@32V 300A@24V	27	164	2.62	X
F05000-1206F		5		22	141	2.89	T
F07000-1206F		7		12	140	5.68	7
F08000-1206F	24V 32V	8	300A@24V 150A@32V	8.5	110	8	M
F10000-1206F		10		7	100	9.5	U
F12000-1206F		12		5	85	11.5	12
F15000-1206F		15		3.5	78	16.5	15
F20000-1206F		20		1.6	60	47.17	20
F25000-1206F		25		1.4	57	32	25
F30000-1206F		30		1	68	43	30

1. DC Interrupting Rating (Measured at rated voltage, time constant of less than 50 microseconds, battery source)
2. DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25°C
3. Typical Pre-arcing I2t are measured at 10In Current

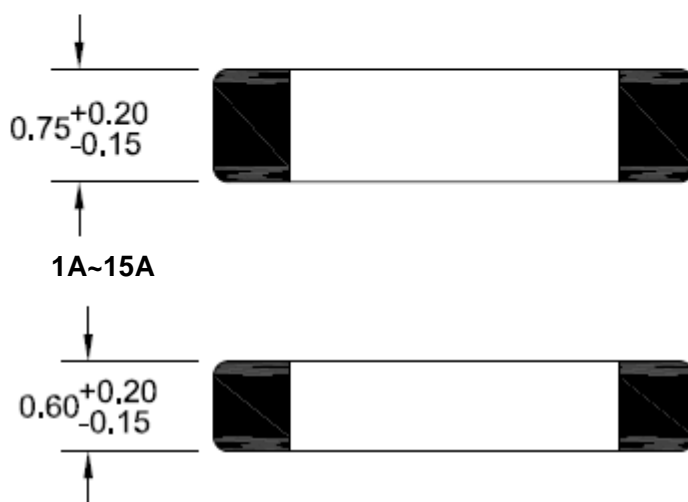
Dimensions(Unit:mm)

Top view

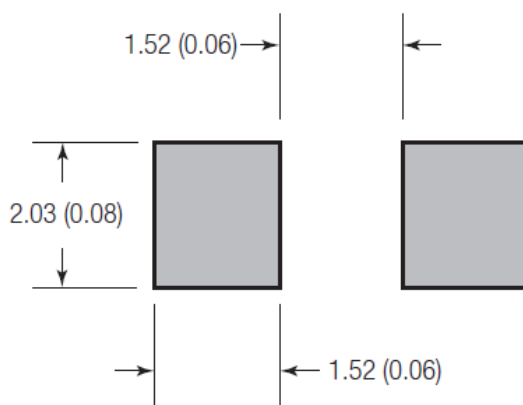


Side view:

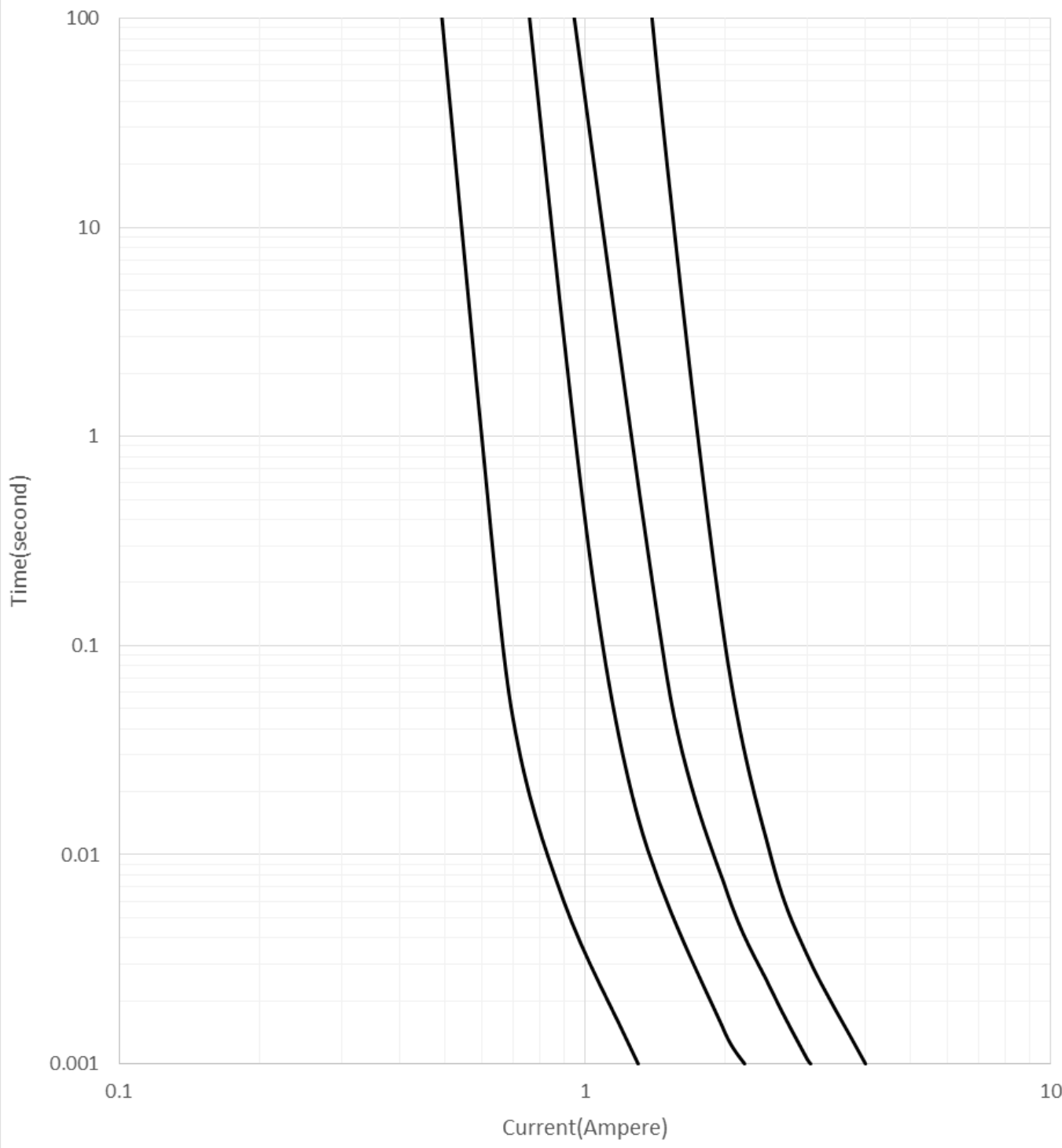
250mA~750mA/20A~30A

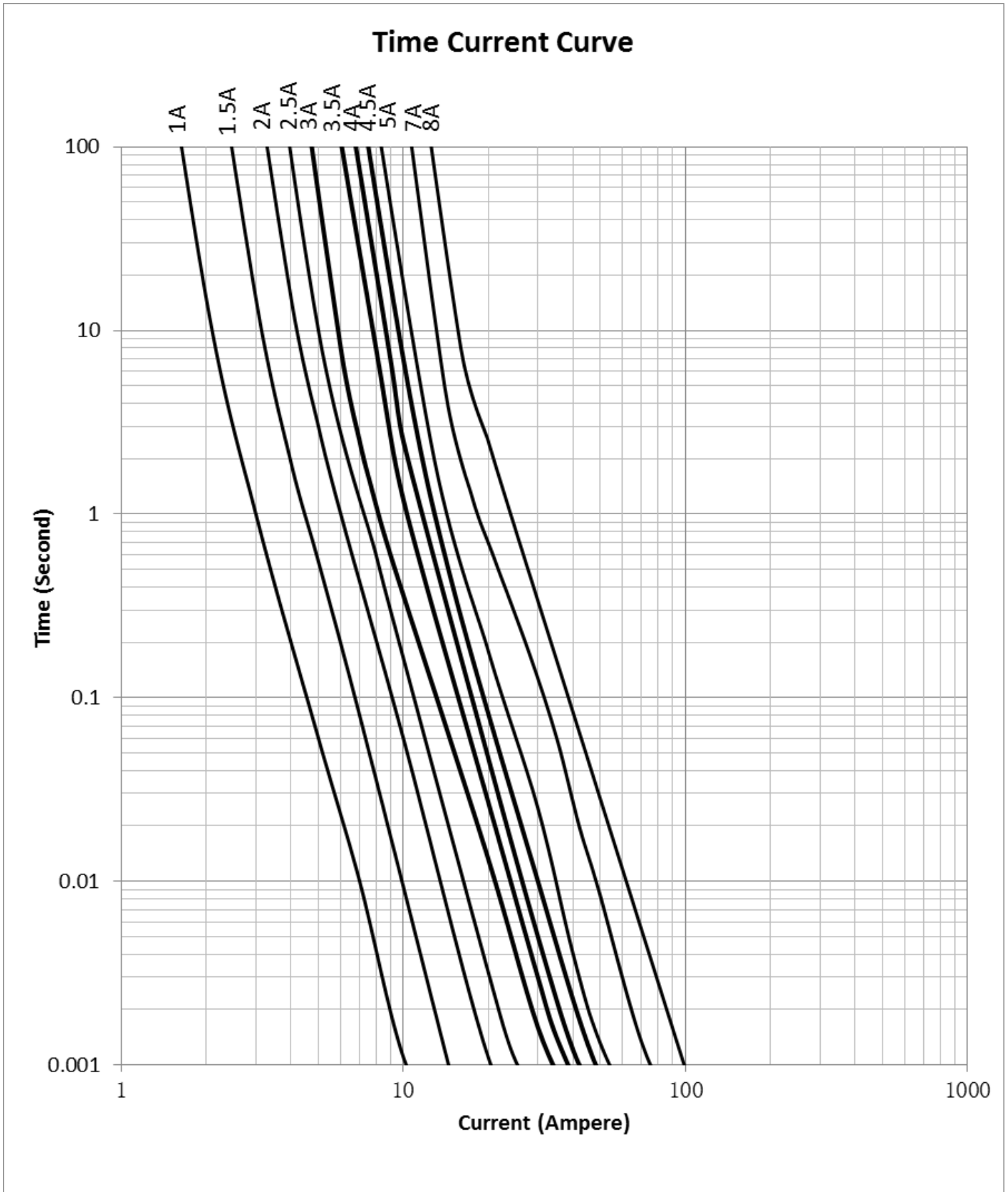


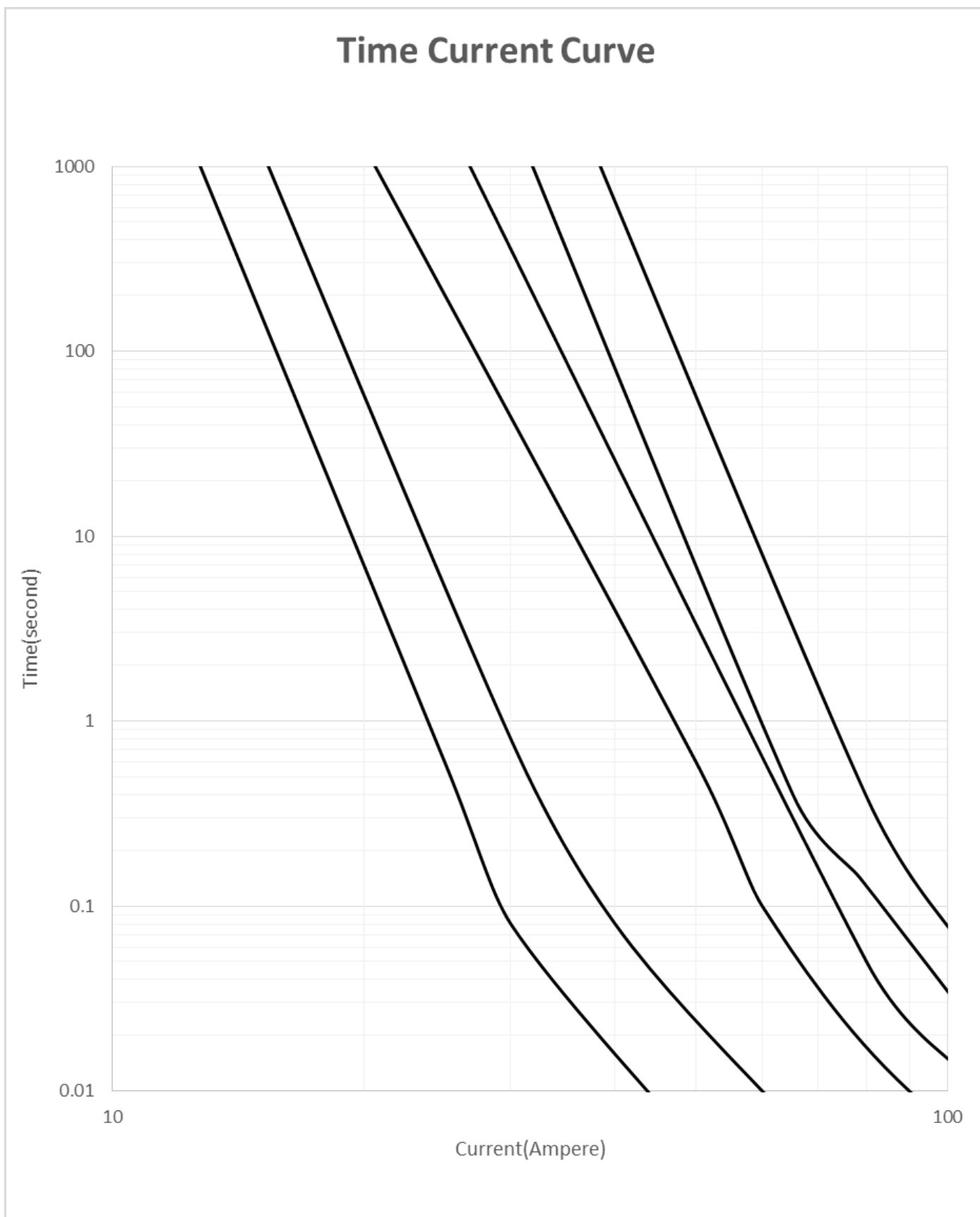
Recommended land pattern



Time Current Curve







●Wave solder

Reservoir temperature: 260°C

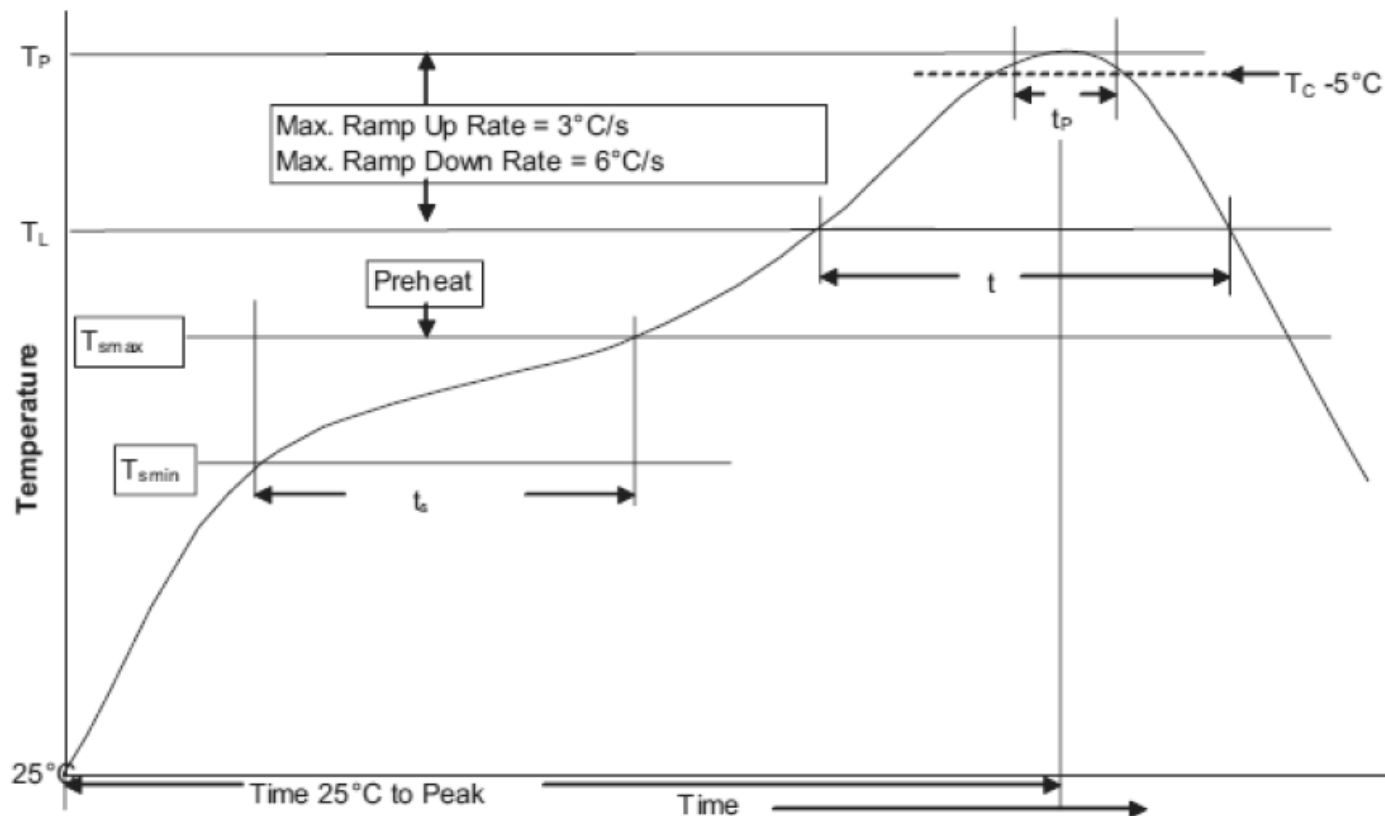
Time in reservoir: 10 seconds maximum

●Infrared reflow

Temperature: 260°C

Time: 30 seconds maximum

●Solder reflow profile

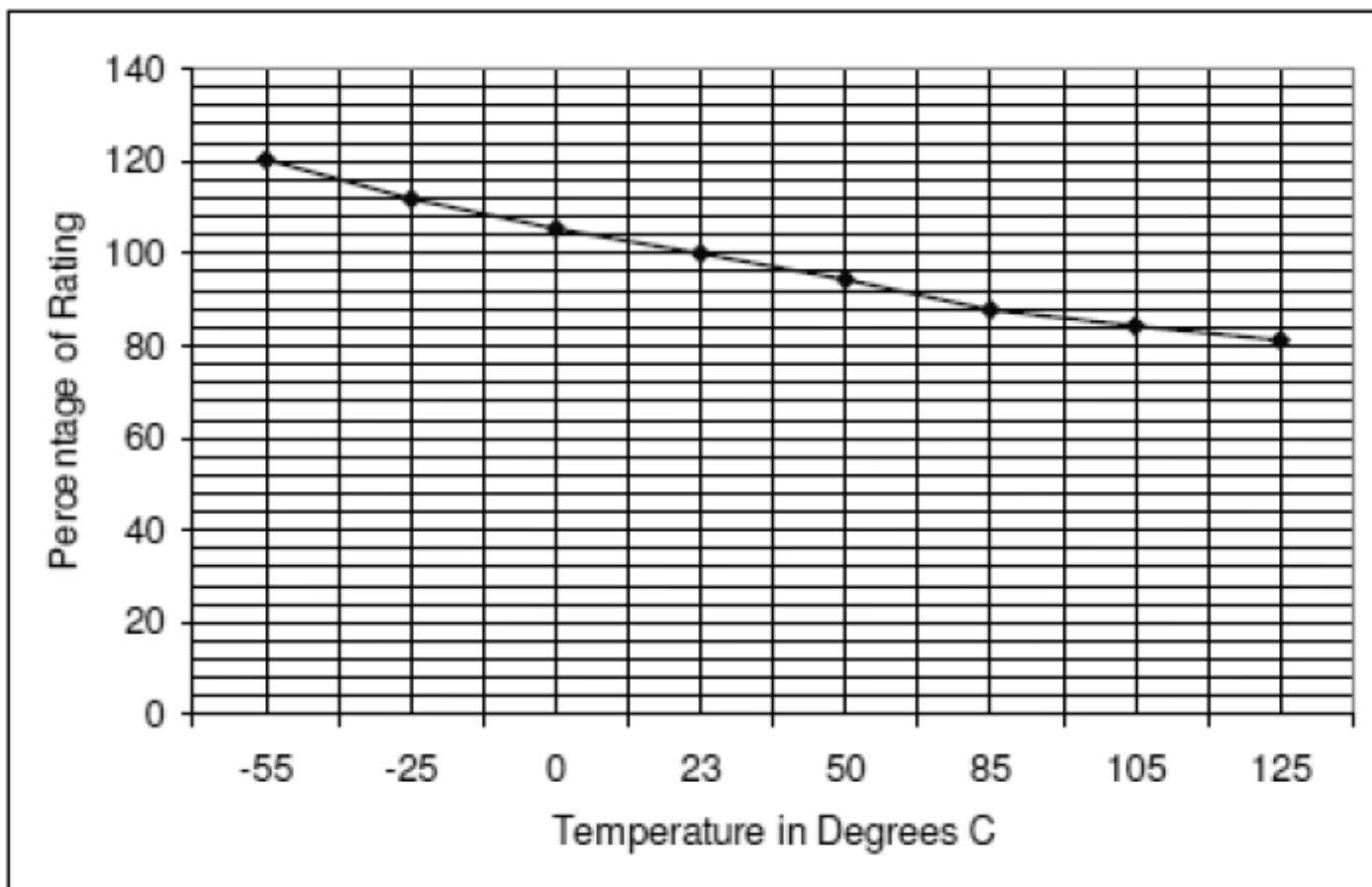


Profile Feature	Profile Feature
Preheat and soak	Temperature min.(T _{smin})
	Temperature max. (T _{smax})
	Time (T _{smin} to T _{smax}) (t _s)
Average ramp up rate T _{smax} to T _p	3°C / Second Max.
Liquidous temperature (T _L)	217°C
Time at liquidous (t _L)	60 - 150 Seconds
Peak package body temperature (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.

Temperature Derating Curve

Normal ambient temperature: 23+/-3°C

Operating temperature: -55 ~ 125°C, with proper correction factor applied



Package

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