



Description

F12F 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			
1.5A	4 hour min.	5 sec max.	-			

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

Specifications

Specification							
Part No.	Rated Voltage DC	Rated Curren t (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 Marking
F12F1.5	72V	1.5A	50A@72Vdc	240	367	0.15	К

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 $^\circ \! C$

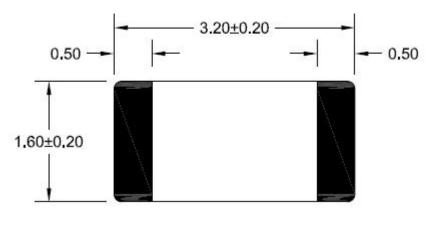
3. Typical Pre-arcing I²t are measured at 10In Current

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

Dimension

Drawing not to scale (Unit: mm) Top

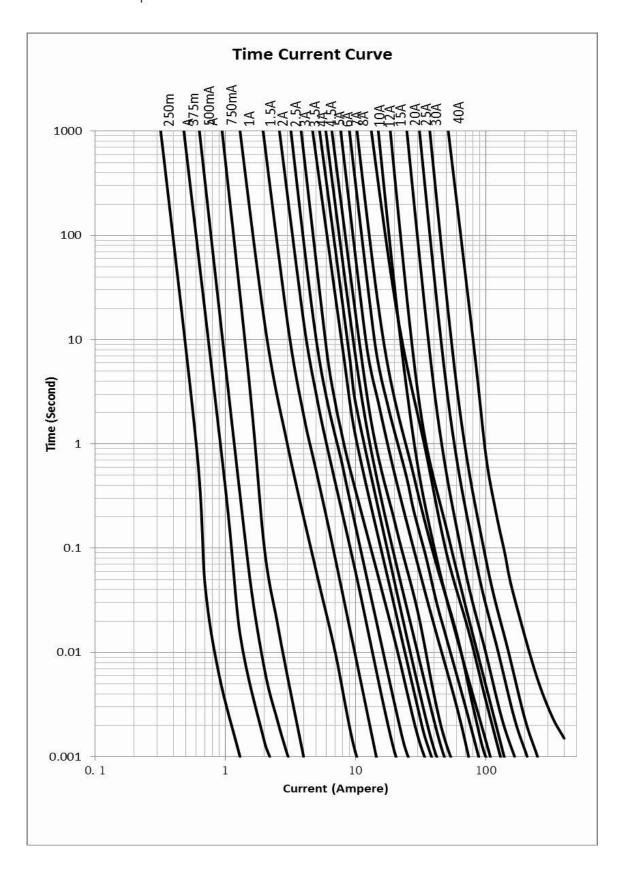
view





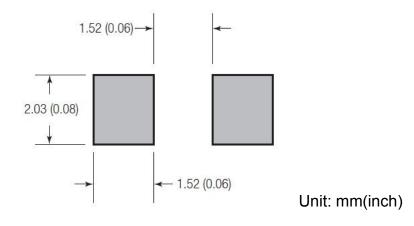








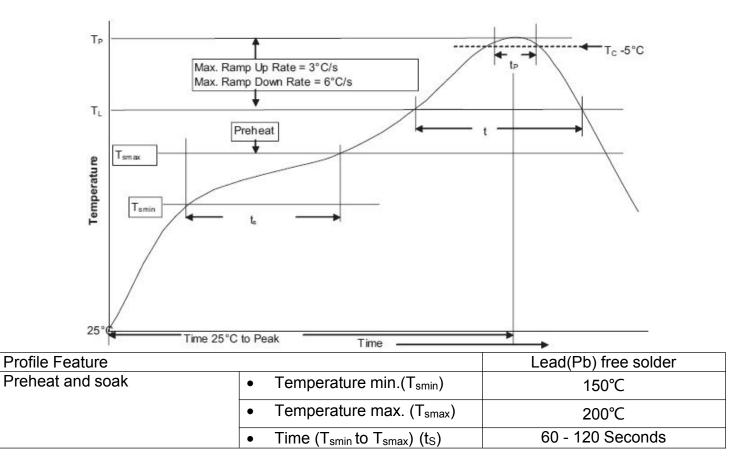
Recommended land pattern



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



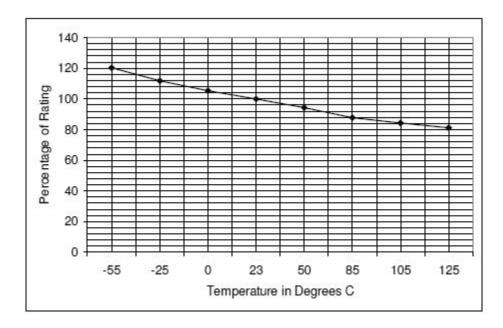


Average ramp up rate T _{smax} to T _p	3°C / Second Max.	
Liquidous temperature (T _L)	217°C	
Time at liquidous (t∟)	60 - 150 Seconds	
Peak package body temperature (T _P)	260°C	
Time (t _P) within 5°C of the specified classification temperature (T _C)	30 Seconds	
Average ramp-down rate (T _P to T _{smax})	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.

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