



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			
10A	10A 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	
F12F10	32V	10A	150A@32Vdc	6.8	100	20	U	

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

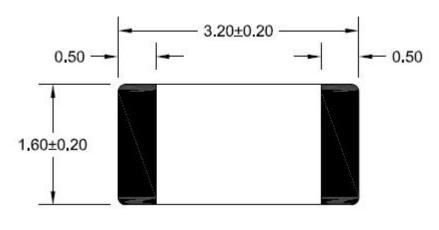
3. Typical Pre-arcing I²t are measured at 10In Current

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

Dimension

Drawing not to scale (Unit: mm) Top

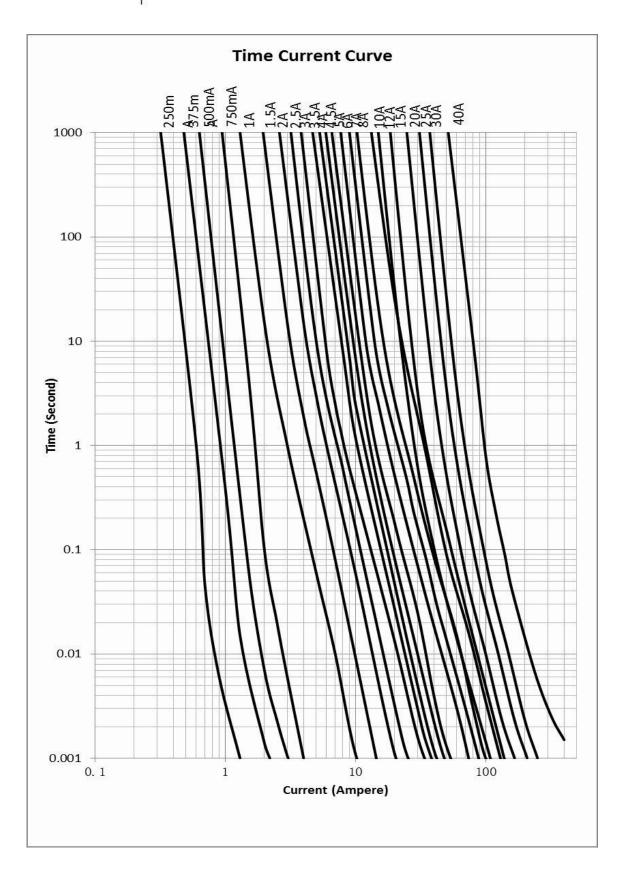
view





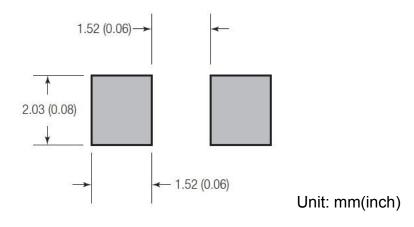








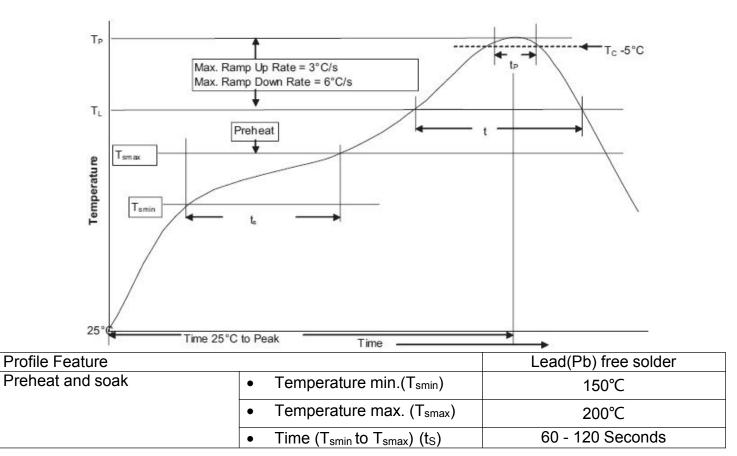
Recommended land pattern



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



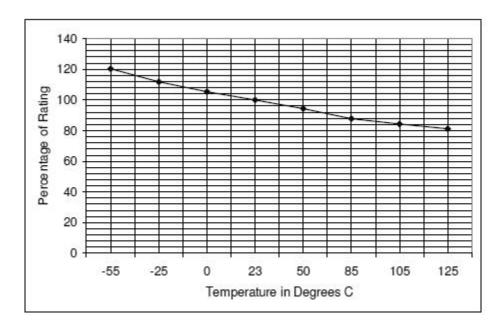


Average ramp up rate T _{smax} to T _p	3°C / Second Max.	
Liquidous temperature (T _L)	217°C	
Time at liquidous (t∟)	60 - 150 Seconds	
Peak package body temperature (T _P)	260°C	
Time (t _P) within 5°C of the specified classification temperature (T _C)	30 Seconds	
Average ramp-down rate (T _P to T _{smax})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