



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	3.5ln				
250mA~5A	1 hour min	5 sec max.	-				
6A~40A	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	
F12F7	32V	7A	150A@32Vdc	12	140	12.5	7	

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

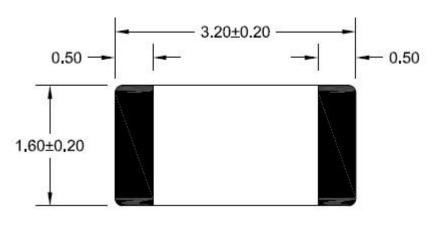
3. Typical Pre-arcing I^2 t are measured at 10In Current

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

Dimension

Drawing not to scale (Unit: mm) Top

view

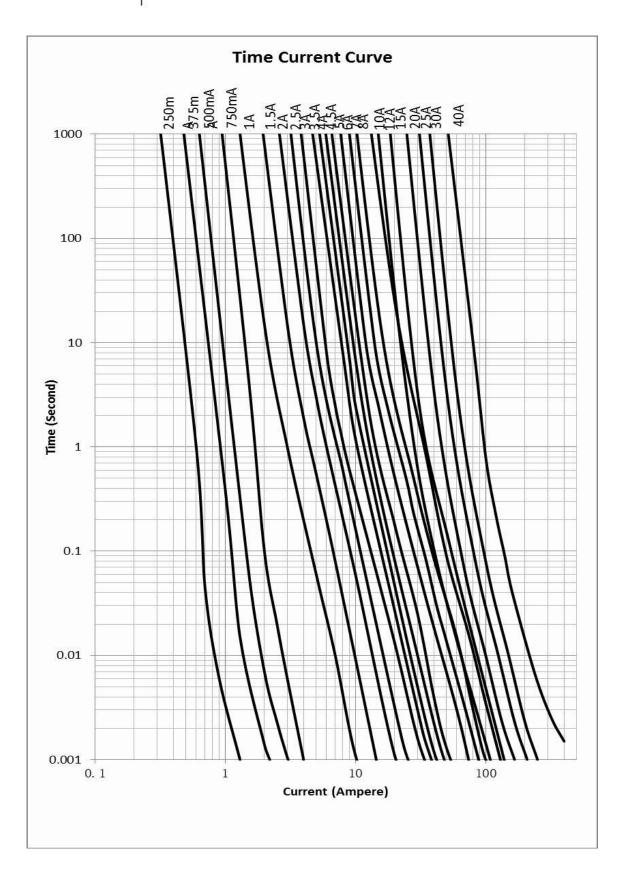




1A~15A

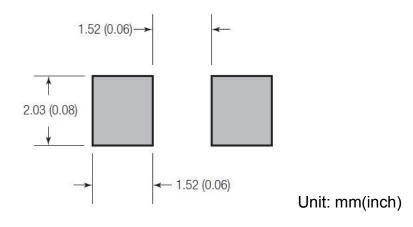








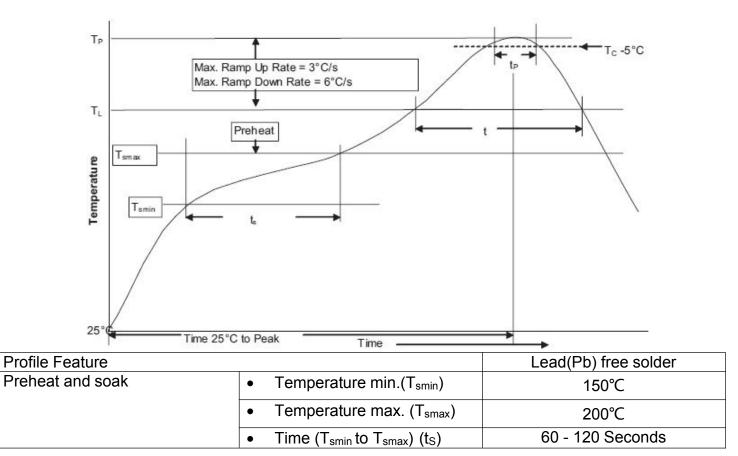
Recommended land pattern



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



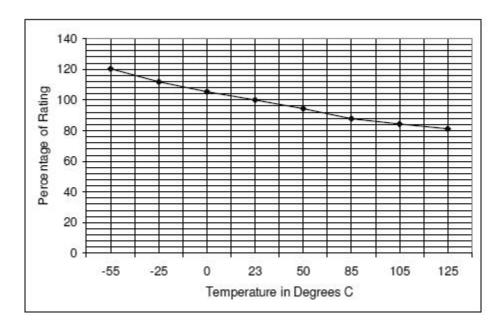


Average ramp up rate T _{smax} to T _p	3°C / Second Max.		
Liquidous temperature (T _L)	217°C		
Time at liquidous (t _L)	60 - 150 Seconds		
Peak package body temperature (T _P)	260°C		
Time (t _P) within 5°C of the specified classification temperature (T _C)	30 Seconds		
Average ramp-down rate (T _P 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: $-55 \sim 125^{\circ}$ 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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