

INDIVIDUAL SPECIFICATION SHEET

Product Name: 1206 Fast Acting SMD Fuses



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Rev.	Effective Date	Changed Contents					
Α	2020-8-12	New Release					
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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				
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
F12F0.25		250mA		3608	1407	0.0004	.25
F12F0.375		375mA]	1882	718	0.0008	E
F12F0.5		500mA		1028	650	0.0022	0.5
F12F0.75		750mA		601	616	0.0057	.75
F12F1	70\/	1A	504@70\/da	490	510	0.10	Н
F12F1.5	72V 63V	1.5A	50A@72Vdc 50A@63Vdc	240	367	0.15	K
F12F2		2A	-	132	316	0.41	Ν
F12F2.5	32V	2.5A	150A@32Vdc	77	240	0.65	0
F12F3	24V	3A	300A@24Vdc	48	187	1.39	Р
F12F3.5		3.5A		40	180	1.68	R
F12F4		4A		35	173	1.73	S
F12F4.5		4.5A		30	164	2.62	Х
F12F5	32V	5A	150A@32Vdc	25	141	2.89	Т
F12F6	-	6A	-	16.5	142	11	F
F12F7	24V	7A	300A@24Vdc	12	140	12.5	7
F12F8		8A		8.5	110	14	М
F12F10		10A		6.8	100	20	U
F12F12		12A		5	85	11.5	12
F12F15	24V	15A	150A@32Vdc	3.9	78	16.5	15
F12F20		20A	300A@24Vdc	1.8	60	47.17	20
F12F25	32V	25A		1.5	57	32	25
F12F30		30A		1.25	68	43	30
F12F40	32V 24V	40A	200A@32Vdc 200A@24Vdc	0.85	95	240	XL

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

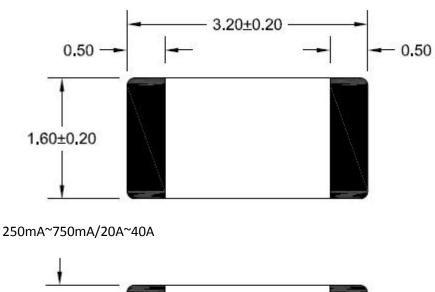
Specifications are subject to change without notice. Application testing is strongly recommended.



Dimension

Drawing not to scale (Unit: mm) Top

view



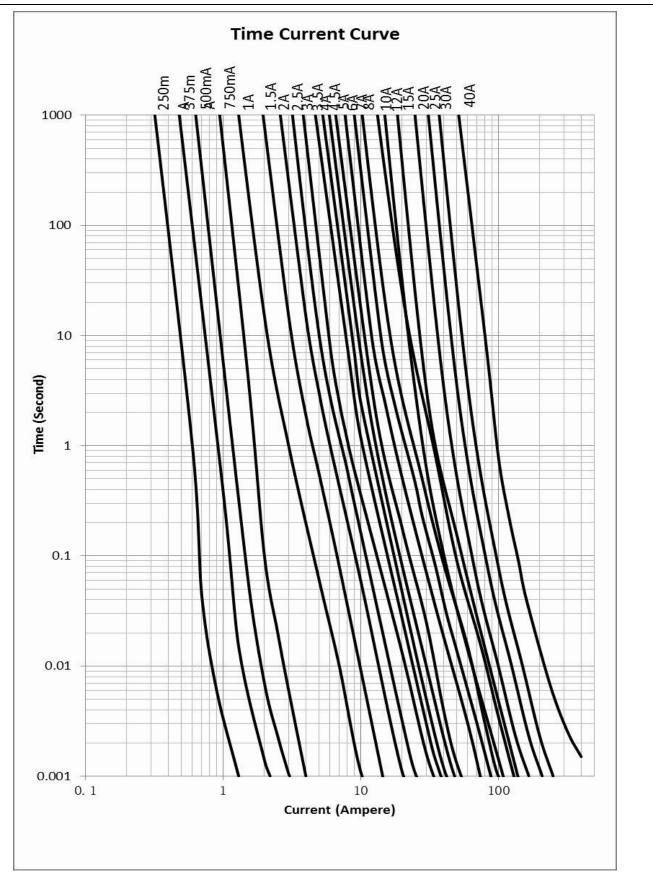






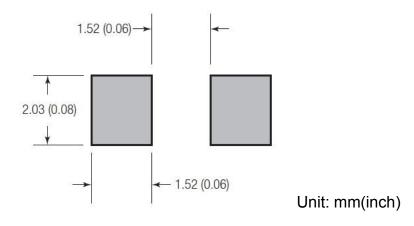








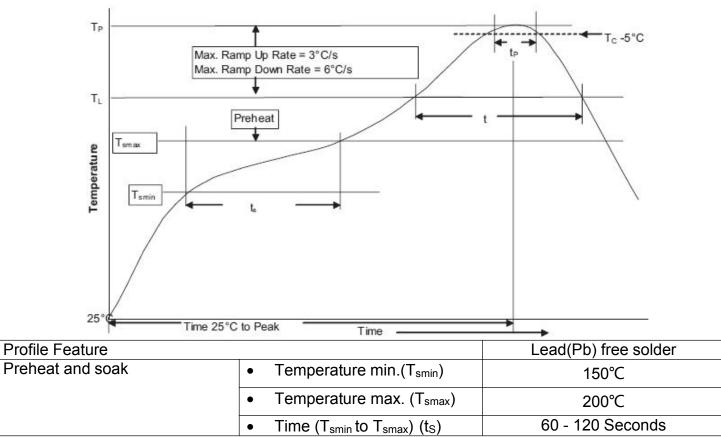
Recommended land pattern



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



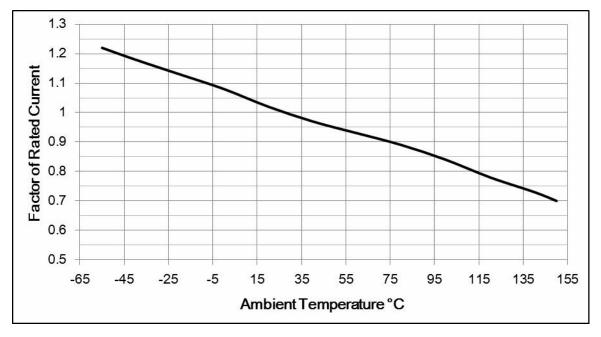


Average ramp up rate T _{smax} to T _p	3°C / Second Max.		
Liquidous temperature (T _L)	217°C		
Time at liquidous (t∟)	60 - 150 Seconds		
Peak package body temperature (T _P)	260°C		
Time (t _P) within 5°C of the specified classification temperature (T _C)	30 Seconds		
Average ramp-down rate (T _P to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



Package

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

--- End of Document ---

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 F12F7
 F12T20
 F06F0.25
 F06T0.5
 F12F2.5
 F12F0.25
 F06F1
 F06F8

 F06T1
 F12F10
 F06F0.75
 F06F6
 F06F1.5
 F06T2
 F12F3.5
 F12T5