

Fast Acting | 12x4.5mm

Surface Mount Fuse

1245FA-S Series

Features

- High reliability;
- New end design enhances the heat dissipation function of the end;
- One body fuse-element design, good product consistency;
- Structural characteristics I^2T is stable, with strong surge resistance;
- Sealing structure strong resistance to harsh environment;



Electrical Characteristics

Amp Rating	% of Amp Rating	Opening Time
0.5~5.0A	100%	4 Hours Min.
	200%	120 Sec. Max.
	1000%	10 mSec. Max.

Specifications

Part Number	Ampere Rating (A)	Voltage Rating	Interrupting Rating	Typical Cold Resistance (Ohms)	Normal I^2t (A ² Sec)
1245FA-R500-S	0.50	600Vdc @ 100A		0.530	0.08
1245FA-R630-S	0.63			0.390	0.14
1245FA-R800-S	0.80			0.230	0.41
1245FA-1A-S	1.0			0.168	0.72
1245FA-1.25A-S	1.25	350Vac @ 100A		0.135	1.17
1245FA-1.6A-S	1.6			0.115	1.58
1245FA-2A-S	2.0	300Vac @ 1500A		0.087	2.64
1245FA-2.5A-S	2.5			0.040	2.93
1245FA-3.15A-S	3.15			0.033	4.58
1245FA-4A-S	4.0			0.023	9.12
1245FA-5A-S	5.0			0.018	14.25

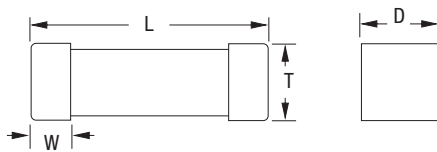
- DC Cold Resistance are measured at <10% of rated current in ambient temperature of 25 °C ;
- Typical Pre-arcing I^2t are measured at 10In Current;

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Dimension Unit: mm

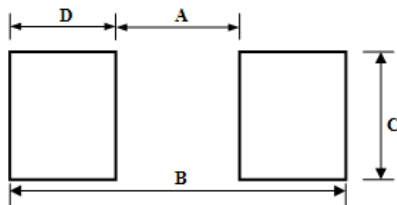


Packaging

- Quantity: 1,5 000pcs
- 12mm wide tape on 7 inch diameter reel -specification EIA Standard 481.

Type	L	W	T	D
1245FA-S	12.3±0.5	2.7±0.3	4.5±0.2	4.5±0.2

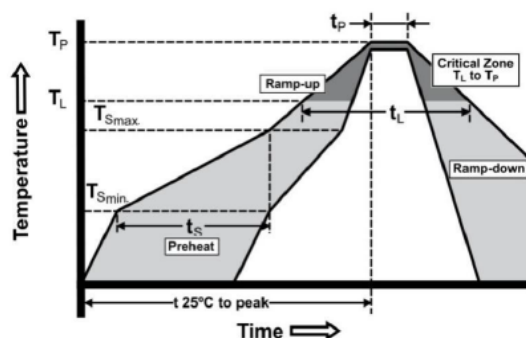
Recommended Land Patterns Unit: mm



Type	A	B	C	D
1245FA-S	5.8±0.3	16.0±0.3	6.4±0.3	5.1±0.3

Soldering Parameters

1. Infrared Reflow:
 - Temperature: 260°C
 - Time: 20sec Max.
 - Recommend Reflow profile



IR Reflow Profile

Preheat Heat	
Temperature min (T _{Smin})	150°C
Temperature max (T _{Smax})	200°C
Time (T _{Smin} to T _{Smax}) (t _S)	60 - 120 seconds

Average ramp-up rate (T _{Smax} to T _P)	3°C/second max.
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Liquidous temperature (T _L)	217°C
Time at liquidous (t _L)	60 - 150 seconds

Peak temperature (T _P)	260°C
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Time within 5°C of actual peak Temperature (t _p)	20 seconds
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Average ramp-down rate (T _P to T _{Smax})	6°C/second max.
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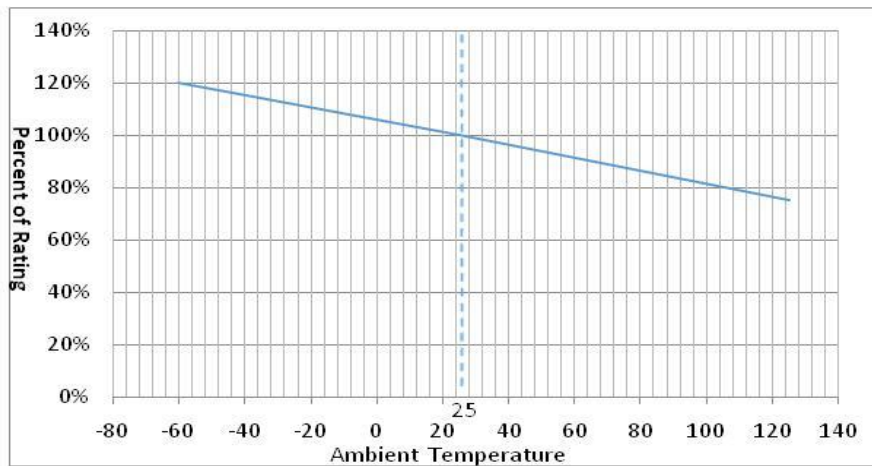
Time 25 °C to peak temperature	8 minutes max.
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Temperature Derating Curve



Average Time Current Curves

