PROSEMI
Circuit Protection

Fast Acting | 0.10x0.32inch
Surface Mount Fuse

1032FH-W Series

1032FH-W Series are wire-in-air surface mount fuses with filler, and the whole series meet the voltage requirements 80VDC@600A / 120VDC@200A, and the size is small,easy to arrange.

Features

- Electroplated copper is used to connect electrodes, with 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;
- 100% lead-free, halogen-free, RoHS compliant;



Appications

- Power supply, Electric tools, base station power supply;
- Motor, server cooling fan, UAV motor;
- Storage system power, such as battery management system BMS;

Electrical Characteristics

Amp Rating	% of Amp Rating	Opening Time
20~60A	100%	4 Hours Min.
	200%	120 Seconds Max.

Specifications

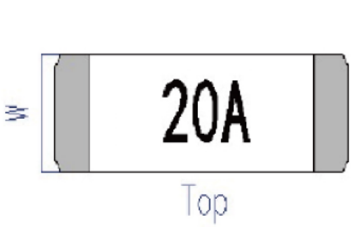
Part Number	Ampere Rating (A)	Interrupting Rating / Voltage Rating	Typical Cold Resistance (mOhms)	Normal I^2t (A^2Sec)
1032FH-20A-W	20	200A @ 120Vdc 600A @ 80Vdc	2.22	200
1032FH-25A-W	25	600A @ 80Vdc	1.73	315
1032FH-30A-W	30		1.45	580
1032FH-40A-W	40		1.02	1050
1032FH-50A-W	50		0.88	1620
1032FH-60A-W	60		0.79	2200

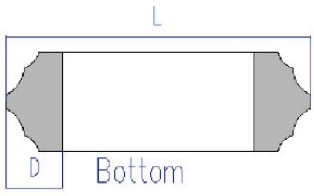
- DC Cold Resistance are measured at <10% of rated current in ambient
- temperature of 25℃; Typical Pre-arcing I^2t are measured at 10In Current;

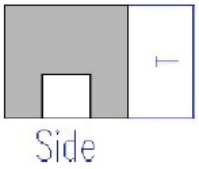
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Surface Mount Fuse — 1032FH-W Series

Dimension Unit: mm





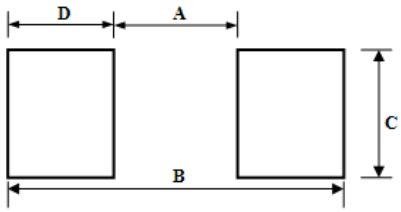


Packaging

- Quantity: 2,000pcs
- 24mm wide tape on 330mm(13 inch) diameter reel - specification EIA Standard 481.

Type	L	W	T	D
1032FH	10.1±0.2	3.2±0.3	3.2±0.3	1.9±0.35

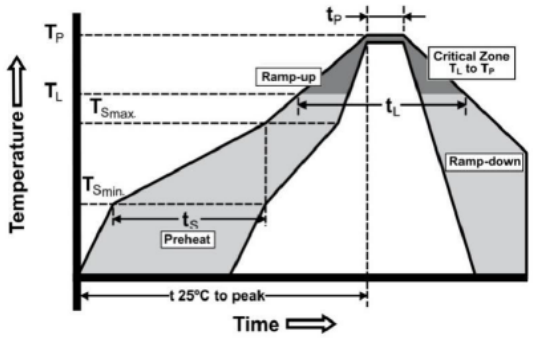
Recommended Land Patterns Unit: mm



Type	A	B	C	D
1032FH	5.7±0.30	12.60±0.30	3.7±0.30	3.45±0.30

Soldering Parameters

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



IR Reflow Profile

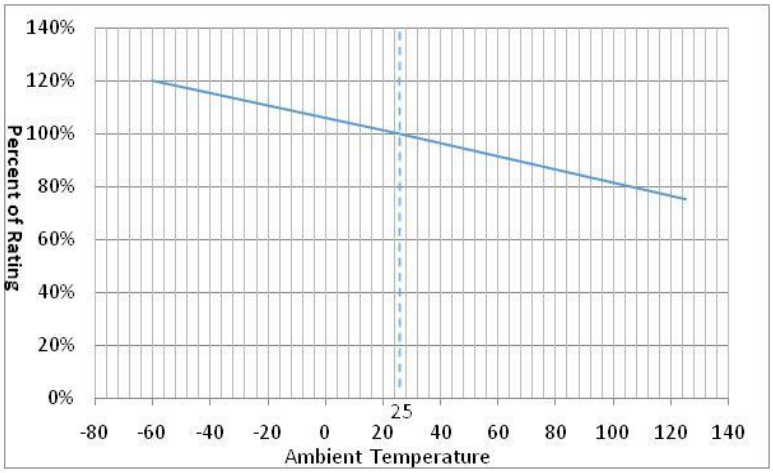
Preheat Heat **Temperature min (Tsmin)** **Temperature max(Tsmax)** **Time (Tsmin to Tsmax) (ts)**	 150°C 200°C 60 -120 seconds
Average ramp-up rate (Tsmax to Tp)	3°C/second max.
Liquidous temperature (TL) **Time at liquidous (tL)**	217°C 60 - 150 seconds
Peak temperature(Tp)	260°C
Time within 5°C of actual peak Temperature (tp)	20 seconds
Average ramp-down rate (Tp to Tsmax)	6°C/second max.
Time 25 °C to peak temperature	8 minutes max.

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Temperature Derating Curve



Average Time Current Curves

