

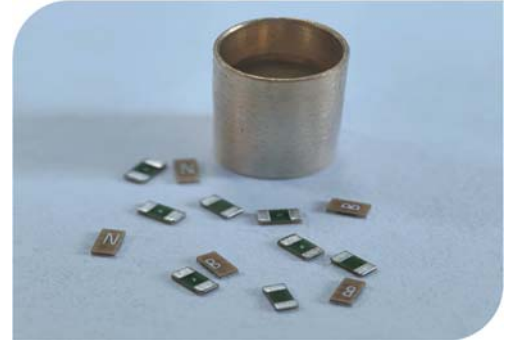
Ultra-Thin Fuse | 0.04x0.02"

0402FA-L Series

Fast Acting series Thin Film Chip Fuse

Features

- Very fast acting at 200% overload current
- Low DCR
- High inrush current withstanding capability
- High reliability
- Fiberglass enforced epoxy fuse body
- Copper termination with nickel and tin plating layer
- Halogen free, RoHS compliance & lead-free



Application

- Panel
- HDD
- Toy
- IoT
- Battery pack
- Finger print
- Smart lock
- Notebook

Electrical Characteristics

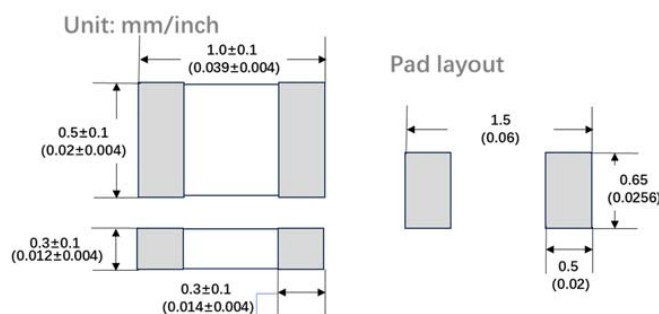
% of Current Rating	Opening Time
100%	4hours min.
200%	5second max.
300%	0.2second max.

Specifications

Part No.	Current Rating(A)	Voltage Rating (Vdc)	Interrupting Rating	Typical Cold DCR (Ω)	Typical I ² t (A ² Sec)*	Marking
0402FA-R500-L	0.5	35	35A @35V	0.165	0.007	=

*Typical I²t: i.e. melting I²t at 0.001s of current rating

Dimension



Packaging

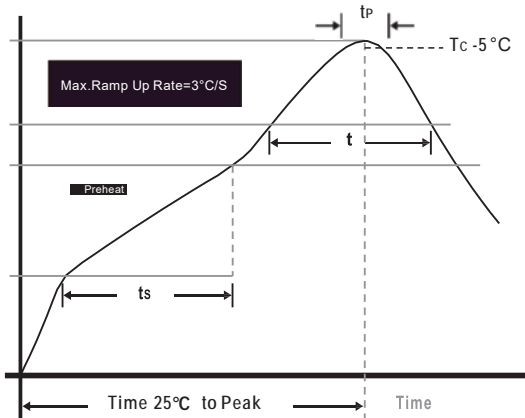
- Quantity:10, 000pcs
- 8mm wide tape on 178mm (7 inch) diameter reel -specification EIA Standard 481

Ultra-Thin Fuse | 0.04x0.02"

0402FA-L Series

Fast Acting series Thin Film Chip Fuse

Soldering Parameters



Wave Soldering: 260°C, 10 seconds max.

Infrared Reflow: 260°C, 30 seconds max.

IR Reflow Profile

Preheat Heat	150°C
Temperature min (T_{smin})	200°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.
--	-----------------

Liquidous temperature (T_L)	217 °C
Time at liquidous (t_L)	60 - 150 seconds

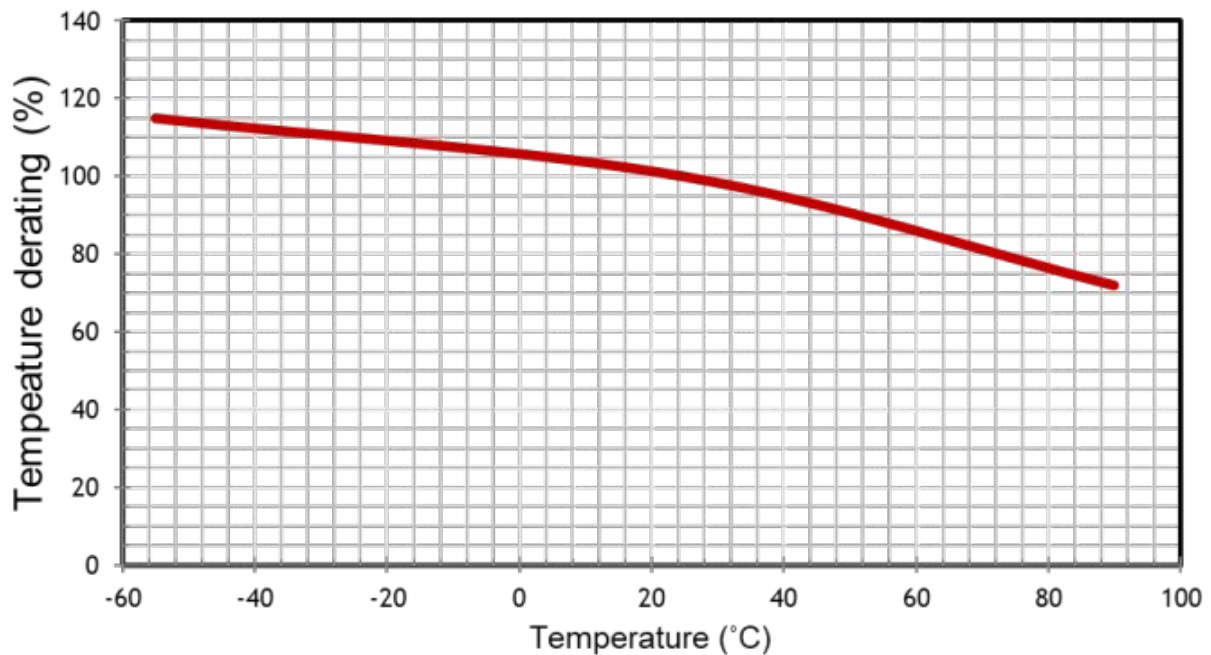
Peak temperature(T_p)	260°C
---------------------------	-------

Time within 5°C of actual peak Temperature (t_p)	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 Effect on Current Rating



- Normal ambient temperature: 23+/-3°C
- Operating temperature: -55 ~ 105°C

Ultra-Thin Fuse | 0.04x0.02"

0402FA-L Series

Fast Acting series Thin Film Chip Fuse

Average Time-Current curve

