



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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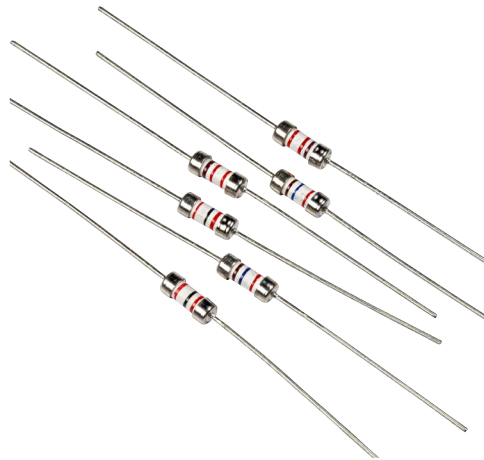
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C310FH

3.1 mm x 10 mm Fast-acting, axial lead ceramic tube fuses



Product features

- Fast-acting
- High breaking capacity
- Designed to IEC60127-3/-7
- Nickel-plated brass single end cap construction
- 3.1 mm x 10 mm compact design utilizes less board space
- Halogen free, lead free, RoHS compliant

Applications

Primary circuit protection:

- Power supplies
- LED and general lighting
- Consumer electronics
- Desktop, laptop and notebook
- Test equipment

Agency information

- cURus Recognition file number: E19180, Guide JDYX2/JDYX8
- CQC: 14012107423
- KC-Mark: File SU05030-14001
- TUV: R50278944

Ordering

- Use ordering number (see page 4 for details)

Packaging suffixes

- -TR1 (1500 parts on tape and reel, tape width 60 mm)
- -TR2 (1500 parts on tape and reel, tape width 52 mm)
- E-TR1 (Epoxy coated fuse, 1500 parts on tape and reel, tape width 60 mm)

Option code

- Blank (Standard fuse)
- E (Epoxy coated)

Electrical characteristics

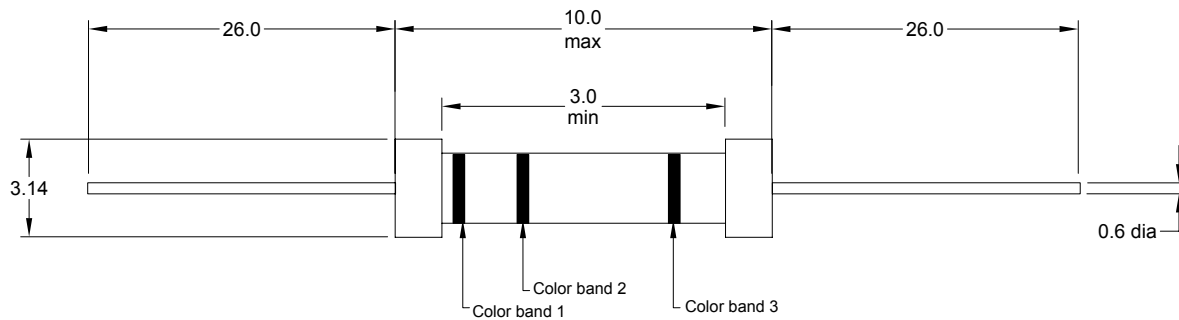
I_n	$1.5I_n$ min hours	$2.1I_n$ max minute	$2.75I_n$ min ms	max s	$4I_n$ min ms	max ms	$10I_n$ max ms
1.25 A- 2.0 A	1.0	30	10	3.0	3.0	300	20

Product specifications

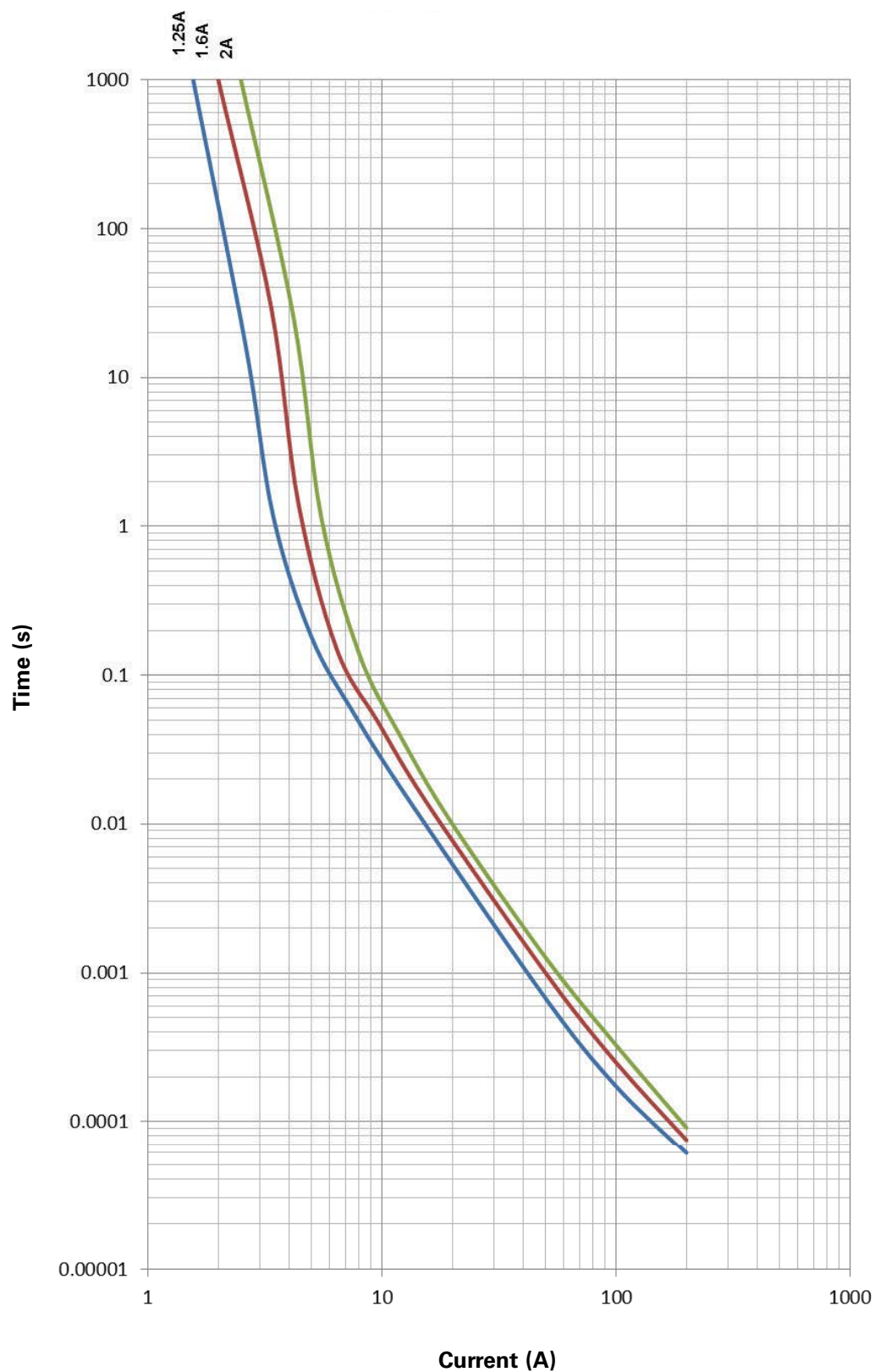
Part number ¹	Current rating (A)	Voltage rating (V _{AC})	Interuppting rating at rated voltage (A)	Typical DC cold resistance (mΩ)	Typical melting I ² t (A ² s)	Maximum voltage drop (mV)	Color code band 1	Color code band 2	Color code band 3
C310FH-1.25-R	1.25	250	150	60	2.7	120	Brown	Red	Red
C310FH-1.6-R	1.6	250	150	55	3.0	120	Brown	Blue	Red
C310FH-2-R	2.0	250	150	30	4.9	120	Red	Black	Red

- Part Number Definition: C310FH-xxx-R
C310FH = Product code
xxx = Ampere rating
-R suffix = RoHS compliant

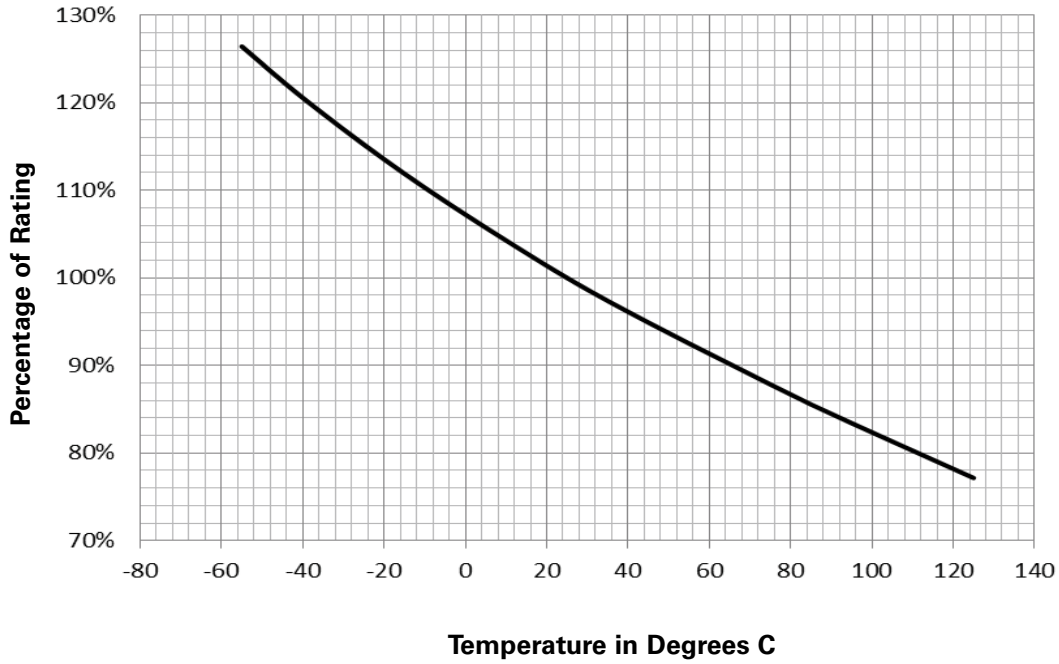
Dimensions—mm



Time vs. current curve



Temperature derating curve



Environmental data

Terminal strength: MIL-STD-202G, Method 211A, test condition A

Thermal shock: MIL-STD- 202G, Method 107G, test condition (5 cycles -40 °C to +85 °C)

Vibration: MIL-STD- 202G, Method 201A

Life: MIL-STD- 202G, Method 108, (+70 °C at 60% rated current, 1000 hours)

Ordering codes

The ordering code is the part number replacing the “” with a “-” plus adding the packaging suffix.

Packaging suffixes

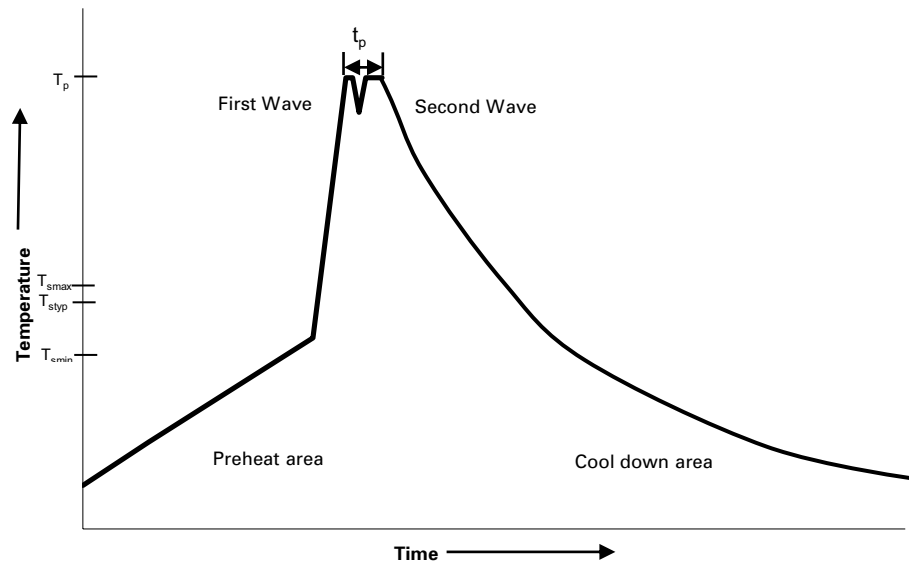
- -TR1 (1500 parts on tape and reel, tape width 60 mm)
- -TR2 (1500 parts on tape and reel, tape width 52 mm)
- E-TR1 (Epoxy coated fuse, 1500 parts on tape and reel, tape width 60 mm)

Option code

- Blank (Standard fuse)
- E (Epoxy coated)

Part number	Ordering codes		
	-TR1 option	-TR2 option	E-TR1 option
C310FH-1.25-R	C310FH-1-25-R-TR1	C310FH-1-25-R-TR2	C310FH-1-25-RE-TR1
C310FH-1.6-R	C310FH-1-6-R-TR1	C310FH-1-6-R-TR2	C310FH-1-6-RE-TR1
C310FH-2-R	C310FH-2-R-TR1	C310FH-2-R-TR2	C310FH-2-RE-TR1

Wave solder profile



Reference EN 61760-1:2006

Profile Feature	Standard SnPb Solder	Lead (Pb) Free Solder
Preheat	• Temperature min. (T_{smin})	100°C
	• Temperature typ. (T_{styp})	120°C
	• Temperature max. (T_{smax})	130°C
	• Time (T_{smin} to T_{smax}) (t_s)	70 seconds
□ preheat to max Temperature	150°C max.	150°C max.
Peak temperature (T_p)*	235°C – 260°C	250°C – 260°C
Time at peak temperature (t_p)	10 seconds max 5 seconds max each wave	10 seconds max 5 seconds max each wave
Ramp-down rate	~ 2 K/s min ~3.5 K/s typ ~5 K/s max	~ 2 K/s min ~3.5 K/s typ ~5 K/s max
Time 25°C to 25°C	4 minutes	4 minutes

Manual solder

350°C, 4-5 seconds. (by soldering iron), generally manual, hand soldering is not recommended.

Reflow solder not recommended

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Printed in USA
Publication No. 10405 BU-MC17041
August 2017