

High current, fast-acting, surface mount fuses in a compact size



The compact 1025HC offers a significant space savings over other fuses with similar current ratings.

Product description:

Eaton's Bussmann® series 1025HC SMD fuses offers high current ratings in a compact size:

- 20, 25, 30, 40, 50 A

Provides high current protection for primary and secondary protection:

- 125 Vac (20 A to 40 A)
- 72 Vdc (20 A to 40 A)
- 60 Vdc (50 A)

A compact size allows for space savings in the application:

- 10.0 mm X 3.2 mm (20 A to 30 A)
- 12.4 mm x 4.5 mm (40 A to 50 A)

Features and benefits:

- Fast-acting performance
- Highest available current rating in a traditional SMD fuse
- Higher I^2t than the leading competitors in the same package, allowing for higher inrush currents and fewer nuisance openings
- UL Recognized for US and Canada PSE certified (20 A – 30 A)
- RoHS compliant, lead free and halogen free construction
- Operating temperature of -55 °C to +125 °C ensuring protection in harsh climates
- 72 Vdc rating on the 20 A thru 40 A make this ideal for protection of telecom circuits



Powering Business Worldwide

Specifications

Ratings

- Voltage Rating DC:
 - 20 A to 40 A: 72 V
 - 50 A: 60 V
- Voltage Rating AC:
 - 20 A to 40 A: 125 V
- Current Rating: 20 A to 50 A
- Interrupting Rating DC:
 - 20 A to 40 A: 500 A
 - 50 A: 600 A
- Interrupting Rating AC:
 - 20 A to 40 A: 100 A

Agency Information

- cURus Recognition: File E19180, Guide JDYX2/JDYX8
- PSE: JET 7042-31007-1001
- RoHS compliant
- REACH declaration available upon request

Applications

- Server and desktop
- Gaming console systems
- Voltage Regulator Module (VRM)
- Storage system power
- Base station
- Power supplies
- LED lighting
- Test equipment

Packaging

-TR

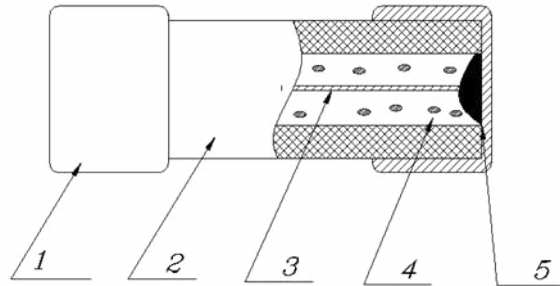
- (20 A to 30 A: 1500 parts per 13" diameter reel, tape width 24 mm)
- (40 A to 50 A: 1000 parts per 13" diameter reel, tape width 24 mm)

| Part Number | Ordering Code |
|-------------|---------------|
| | -TR option |
| 1025HC20-R | 1025HC20-RTR |
| 1025HC25-R | 1025HC25-RTR |
| 1025HC30-R | 1025HC30-RTR |
| 1025HC40-R | 1025HC40-RTR |
| 1025HC50-R | 1025HC50-RTR |

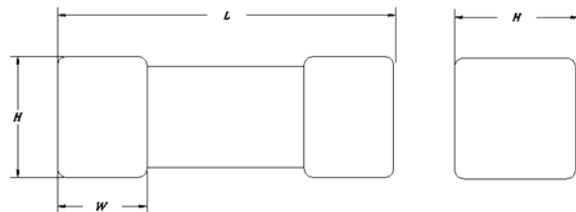
Electrical characteristics

| % of Amp rating | Opening Time |
|-----------------|---------------|
| 100 | 4 hrs minimum |
| 200 | 60 s maximum |

Product constructions and dimensions mm (in)



| Item | 1 | 2 | 3 | 4 | 5 |
|-------------|---------|--------------|---------|--------|--------|
| Description | End Cap | Ceramic Body | Element | Filler | Solder |



| Rating | L | W | H |
|------------|-------------|-------------|-------------|
| 20 to 30 A | 10.0 ± 0.50 | 1.70 ± 0.15 | 3.15 ± 0.15 |
| 40 to 50 A | 12.4 ± 0.50 | 2.70 ± 0.15 | 4.50 ± 0.15 |

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 Printed in USA
 Publication No. 10574 #BU-MC16085
 August 2016

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