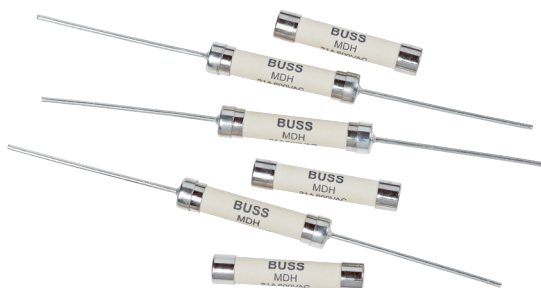


MDH-R

6.3 mm x 32 mm Ferrule and axial lead, high breaking capacity, high I²t ceramic tube fuses



Product description

- High breaking capacity and I²t
- High surge withstand: 20 cycles of 1.2/50 μ s - 8/20 μ s, 20 kV/10 kA surge
- UL248-14 compliant
- Ceramic tube, nickel plated brass end cap
- 6.3 mm x 32 mm form factor
- Ferrule and axial lead options
- Halogen free, lead free, RoHS compliant

Applications

Primary circuit protection:

- Lighting controls
- Surge protectors
- LED and general lighting

Agency information

- cURus Recognition file number: E19180, Vol 7

Ordering

- Use ordering number (see page 3 for details)

Packaging suffixes

- BK (100 parts per carton)
- TR (500 parts per roll)

Electrical characteristics

| I_n | 1.0I _n min hour | 2.0I _n max minute |
|-------|----------------------------------|------------------------------------|
| 21A | 4 | 2 |

Product specifications

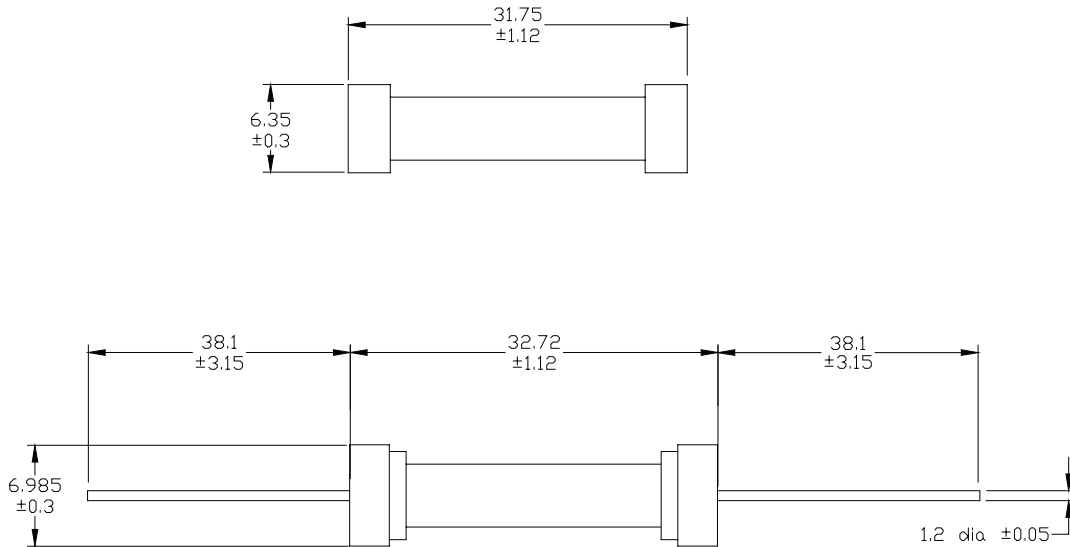
| Part number ¹ | | | | | | | | | |
|--------------------------|-------------|--------------------|-----------------------------------|-----------------------------------|--------------------------------------------------------------------|------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------|--|
| Ferrule | Axial lead | Current rating (A) | Voltage rating (V _{AC}) | Voltage rating (V _{DC}) | Interrupting rating at rated AC voltage (50 Hz) (A _{AC}) | Interrupting rating at rated DC voltage (A _{DC}) | Typical D C cold resistance (Ω) | Typical pre-arcing ¹ I ² t (A ² s) | |
| MDH- 21-R | MDH-V- 21-R | 21 | 600 | 150 | 200 | 200 | 0.0024 | 5100 | |

1. Typical I²t value measured at 10 times of rated current under DC.

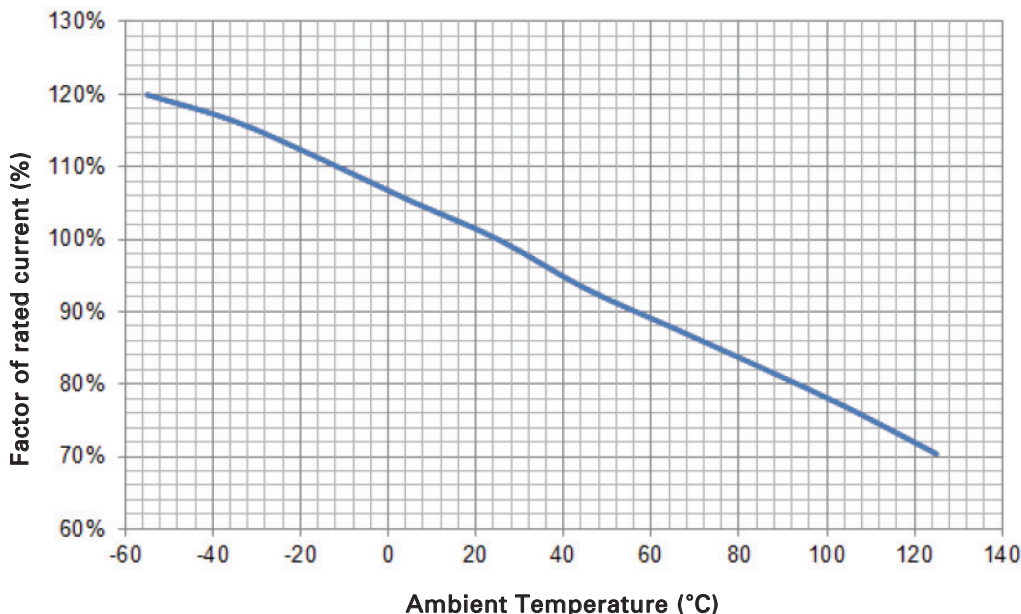
2. Part Number Definition: MDH-x-xx-R
x = Use "V" code for axial lead, leave blank for ferrule
xx= Ampere rating
-R suffix = RoHS compliant

Dimensions—mm

Drawing not to scale



Temperature derating curve



Environmental data

- Operating temperature: - 55 °C to 125 °C (with derating)
- Thermal shock: MIL-STD- 202G, Method 107G, test condition B (5 cycles - 65 °C to 125 °C)
- Vibration: MIL-STD- 202G, Method 201A
- Mechanical shock: MIL-STD- 202, Method 213, test condition A
- Humidity: MIL-STD- 202G, Method 103B, Test condition A
- High surge withstand: 20 cycles of 1.2/50 μs - 8/20 μs, 20 kV/10 kA surge

Ordering codes

The ordering code is the part number replacing the "." with a "-" plus adding the packaging suffix as shown.

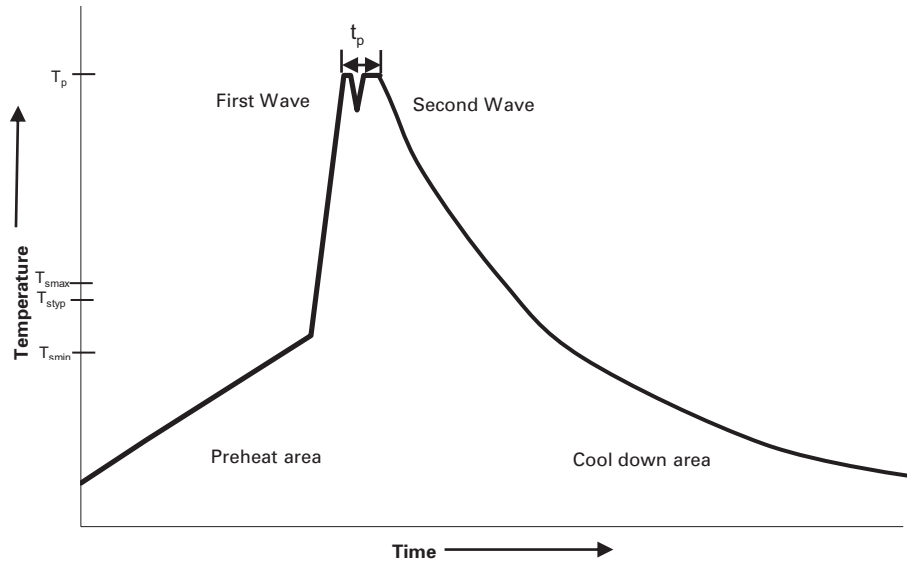
Packaging suffixes

- BK (100 parts per carton)
- TR (500 parts per roll)

| Part number | Ordering codes | |
|-------------------|----------------|--------------|
| | BK option | TR option |
| Ferrule | | |
| MDH-21-R | MDH-21-R-BK | |
| Axial lead | | |
| MDH-V-21-R | MDH-V-21-RBK | MDH-V-21-RTR |

Through-hole wave solder profile (axial lead only)

Reflow soldering not recommended



Reference EN 61760-1:2006

| Profile Feature | | Standard SnPb Solder | Lead (Pb) Free Solder |
|--------------------------------------------|--------------------------------------------------------------------|-------------------------------------------|-------------------------------------------|
| Preheat | • Temperature min. (T _{smin}) | 100°C | 100°C |
| | • Temperature typ. (T _{styp}) | 120°C | 120°C |
| | • Temperature max. (T _{smax}) | 130°C | 130°C |
| | • Time (T _{smin} to T _{smax}) (t _s) | 70 seconds | 70 seconds |
| Δ 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.

Life Support Policy: Eaton does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

Eaton reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Eaton also reserves the right to change or update, without notice, any technical information contained in this bulletin.

Eaton
Electronics Division
1000 Eaton Boulevard
Cleveland, OH 44122
United States
www.eaton.com/elx

© 2016 Eaton
All Rights Reserved
Printed in USA
Publication No. 10530 BU-MC16038
April 2016

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9