

S505SC

5 mm x 20 mm Time-delay, axial lead ceramic tube fuses



Product features

- Time-delay, high breaking capacity
- Designed to IEC 60127-2
- Nickel-plated brass end cap construction
- 5 mm x 20 mm physical size

Applications

Primary circuit protection:

- Power supplies
- LED lighting
- LED/LCD televisions
- Appliances and white goods
- Printers

Agency information

- cURus Recognition file number: E19180, Guide JDYX2/JDYX8
- SEMKO: File 1219335, 1310139
- VDE: File 40024252, 40037710 (1 A - 8 A)
- BSI: File KM55676
- IMQ: File CA03.00529
- PSE/JET: JET1641-31003-1010, JET1641-31003-2002, JET7042-31003-2001
- CCC: 2019010207252180
- KC-Mark: File SU05011-12003, SU05011-12004, SU05011-12005A; SU05030-13003A, SU05030-13004, SU05030-13005
- TUV: J50233218

Ordering

- The ordering code is the part number replacing the " " with a "-" plus adding the packaging prefix (i.e. S505SC-1.25-R; BK-S505SC1-25-R)

Packaging prefixes

- BK- (20 parts in a carrier, 5 carriers in a box)
- TR2- (1500 parts per reel, tape width 52 mm)
- TR3- (1500 parts per reel, tape width 54 mm)

Electrical characteristics

| I_n | $1.5I_n$ min minute | $2.1I_n$ max minute | $2.75I_n$ min ms | max s | $4I_n$ min ms | max s | $10I_n$ min ms | max ms |
|------------|---------------------------|---------------------------|------------------------|----------|---------------------|----------|----------------------|-----------|
| 1 A-3.15 A | 60 | 30 | 750 | 80 | 95 | 5 | 10 | 150 |
| 4 A-6.3 A | 60 | 30 | 750 | 80 | 150 | 5 | 10 | 150 |
| 8 A-10 A | 30 | 30 | 750 | 80 | 150 | 5 | 10 | 150 |

Product specifications

| Part number ⁵ | Current rating (A) | Voltage rating (Vac) | Interrupting rating at rated voltage (50 Hz) (A) | Typical DC cold resistance (Ω) ² | Typical pre-arcing I^2t (A^2s) ³ | Typical voltage drop (mV) ⁴ | IMQ | VDE | SEMKO | cURus | PSE/JET | CCC | KC | BSI | TUV |
|--------------------------|--------------------|----------------------|--|--|---|--|-----|-----|-------|-------|---------|-----|----|-----|-----|
| S505SC-1-R | 1.0 | 250 | 1500 | 0.169 | 1.38 | 180 | x | x | x | x | x | x | x | x | x |
| S505SC-1.25-R | 1.25 | 250 | 1500 | 0.108 | 2.14 | 151 | x | x | x | x | x | x | x | x | x |
| S505SC-1.6-R | 1.6 | 250 | 1500 | 0.070 | 7.35 | 130 | x | x | x | x | x | x | x | x | x |
| S505SC-2-R | 2.0 | 250 | 1500 | 0.055 | 9.83 | 123.5 | x | x | x | x | x | x | x | x | x |
| S505SC-2.5-R | 2.5 | 250 | 1500 | 0.040 | 19.9 | 119 | x | x | x | x | x | x | x | x | x |
| S505SC-3.15-R | 3.15 | 250 | 1500 | 0.031 | 40.4 | 110 | x | x | x | x | x | x | x | x | x |
| S505SC-4-R | 4.0 | 250 | 1500 | 0.018 | 41.0 | 89.8 | x | x | x | x | x | x | x | x | x |
| S505SC-5-R | 5.0 | 250 | 1500 | 0.013 | 71.2 | 88 | x | x | x | x | x | x | x | x | x |
| S505SC-6.3-R | 6.3 | 250 | 1500 | 0.010 | 152 | 72.5 | x | x | x | x | x | x | x | x | x |
| S505SC-8-R | 8.0 | 250 | 1500 | 0.007 | 237 | 82.5 | x | x | x | x | x | x | x | x | x |
| S505SC-10-R | 10 | 250 | 1500 | 0.005 | 353 | 70 | x | | x | x | x | x | x | x | x |

1 Interrupting ratings 1 A to 10 A were measured at 70% to 80% PF on AC.

2 Typical DC cold resistance measured at <10% of rated current.

3. Typical I^2t value is measured at 10 times the rated current under DC.

4. Typical voltage drop is measured at +20 °C ambient temperature at rated current.

5. Part number definition: S505SC-xxx-R

S505 = Product code

SC = Single cap

xxx = Ampere rating

-R = RoHS compliant

Dimensions—mm

| |
|----------------|
| A |
| BK: 38.1±0.38 |
| TR2: 15.75 typ |
| TR3: 16.75 typ |



Time vs. current curve



I²t vs. time curve



Temperature derating curve



General specifications

Operating temperature: -55 °C to +125 °C (with derating)

Wave solder profile



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
Eaton.com/electronics

© 2019 Eaton
All Rights Reserved
Printed in USA
Publication No. 10132 PCN19017M
December 2019

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.



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