

### Description

- Time delay, high breaking capacity
- Optional axial leads available
- 5mm x 20mm physical size
- Ceramic tube, nickel plated brass endcap construction
- Designed to IEC 60127-2 (1A-12A)



| ELECTRICAL CHARACTERISTICS |               |               |                    |                 |                  |  |  |  |
|----------------------------|---------------|---------------|--------------------|-----------------|------------------|--|--|--|
| In                         | 1.5 In<br>min | 2.1 In<br>max | 2.75 In<br>min max | 4 In<br>min max | 10 In<br>min max |  |  |  |
| <1A                        | 60 min        | 30 min        | 250 ms 80 sec      | 50 ms 5 sec     | 5 ms 55 ms       |  |  |  |
| 1A-3.15A                   | 60 min        | 30 min        | 1 sec 80 sec       | 95 ms 5 sec     | 10 ms 100 ms     |  |  |  |
| 4A-10A                     | 60 min        | 30 min        | 1 sec 80 sec       | 150 ms 5 sec    | 20 ms 100 ms     |  |  |  |
| 12.5A                      | --            | 30 min        | 1 sec 80 sec       | 150 ms 5 sec    | 20 ms 100 ms     |  |  |  |

### Agency Information

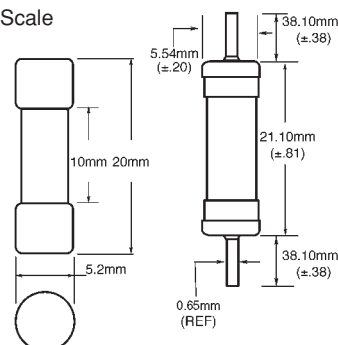
- UL Recognized Card: (500mA-12A) Guide JDYX2, File E19180
- CSA Component Acceptance: File 53787, 500mA-10A
- SEMKO Approval, 500mA-10A
- VDE Approval, 500mA-10A
- BSI Approval, 500mA-10A
- IMQ Approval, 500mA-10A
- CCC Approval, 500mA-6.3A

### Ordering

- Specify packaging, product, and option code
- For -R option, drop mA or A from product code (i.e. S505-3-R)

### Dimensions

Drawing Not to Scale



- Ratings above 6.3A have a 0.8mm diameter lead
- With TR2 packaging code, lead wire length is 19.05mm

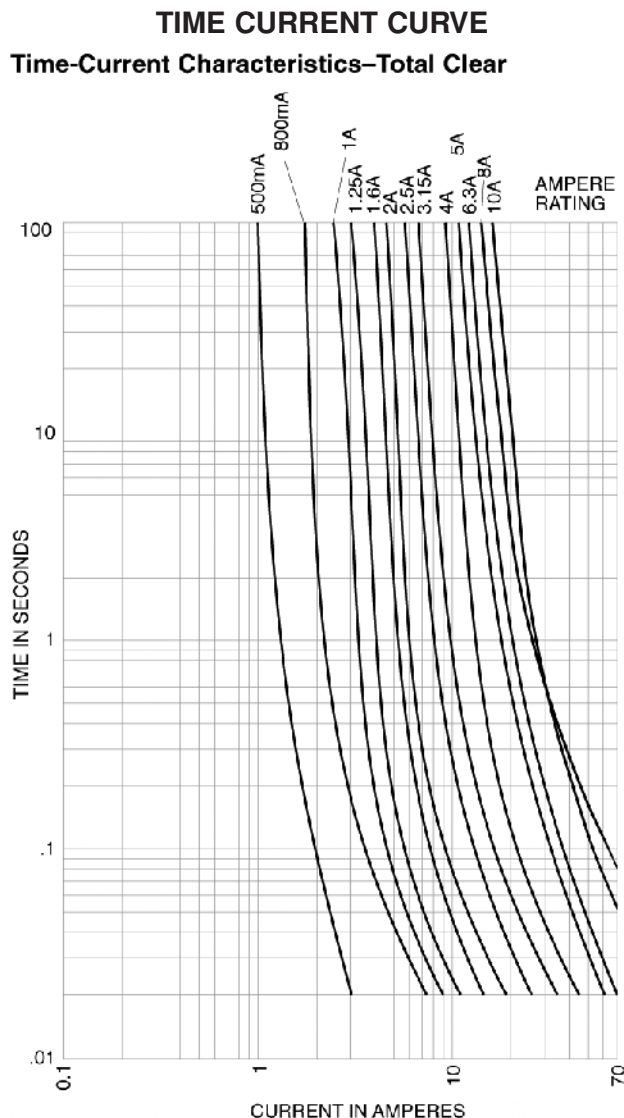
| SPECIFICATIONS |                      |                                                      |                                       |                                                              |                            |
|----------------|----------------------|------------------------------------------------------|---------------------------------------|--------------------------------------------------------------|----------------------------|
| Product Code   | Voltage Rating<br>AC | Interrupting Rating<br>at Rated Voltage (50Hz)<br>AC | Typical DC Cold Resistance<br>(ohms)* | Typical Melting I <sup>2</sup> t (A <sup>2</sup> Sec)<br>AC† | Typical Voltage Drop (mV)‡ |
| S505-500mA     | 250V                 | 1500A                                                | 0.507                                 | -                                                            | 295                        |
| S505-800mA     | 250V                 | 1500A                                                | 0.237                                 | -                                                            | 189                        |
| S505-1A        | 250V                 | 1500A                                                | 0.138                                 | 0.74                                                         | 170                        |
| S505-1.25A     | 250V                 | 1500A                                                | 0.089                                 | 1.6                                                          | 150                        |
| S505-1.6A      | 250V                 | 1500A                                                | 0.060                                 | 3.5                                                          | 130                        |
| S505-2A        | 250V                 | 1500A                                                | 0.041                                 | 7.6                                                          | 110                        |
| S505-2.5A      | 250V                 | 1500A                                                | 0.030                                 | 14                                                           | 100                        |
| S505-3.15A     | 250V                 | 1500A                                                | 0.021                                 | 27                                                           | 90                         |
| S505-4A        | 250V                 | 1500A                                                | 0.015                                 | 52                                                           | 85                         |
| S505-5A        | 250V                 | 1500A                                                | 0.011                                 | 98                                                           | 80                         |
| S505-6.3A      | 250V                 | 1500A                                                | 0.008                                 | 197                                                          | 75                         |
| S505-8A        | 250V                 | 1500A                                                | 0.007                                 | 311                                                          | 75                         |
| S505-10A       | 250V                 | 1500A                                                | 0.006                                 | 397                                                          | 72                         |
| S505-12A       | 250V                 | 1000A                                                | 0.005                                 | 714*                                                         | 77                         |

\* DC Cold Resistance (Measured at <10% of rated current)

† Typical Melting I<sup>2</sup>t (I<sup>2</sup>t was measured at listed interrupting rating and rated voltage)

‡ Typical Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current)

x Typical Melting I<sup>2</sup>t was measured at 10 times the rated current under DC



| PACKAGING CODE |                                                                             |
|----------------|-----------------------------------------------------------------------------|
| Packaging Code | Description                                                                 |
| <b>BK</b>      | 100 pieces of fuses packed into a cardboard carton                          |
| <b>BK1</b>     | 1,000 pieces of fuses packed into a poly bag                                |
| <b>TR2</b>     | 1,500 pieces of fuses packed into tape on a reel (19.05mm lead wire length) |

| OPTION CODE |                                                                    |
|-------------|--------------------------------------------------------------------|
| Option Code | Description                                                        |
| <b>V</b>    | Axial leads - copper tinned wire with nickel plated brass overcaps |
| <b>-R</b>   | RoHS compliant version                                             |