

### Description

- Time delay, low breaking capacity
- Optional axial leads available
- 5mm x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Designed to IEC 60127-2 (32mA-10A)

### S506 ELECTRICAL CHARACTERISTICS

| In         | 2.1 In |        | 2.75 In |        | 4 In  |       | 10 In  |     |
|------------|--------|--------|---------|--------|-------|-------|--------|-----|
|            | max    | min    | max     | min    | max   | min   | max    | min |
| 32mA-100mA | 2 min  | 200 ms | 10 sec  | 40 ms  | 3 sec | 10 ms | 300 ms |     |
| 125mA-6.3A | 2 min  | 600 ms | 10 sec  | 150 ms | 3 sec | 20 ms | 300 ms |     |
| 8A-15A     | 2 min  | 600 ms | 10 sec  | 150 ms | 3 sec | 20 ms | 300 ms |     |

### Agency Information

- UL Recognized Card: (32mA-15A) Guide JDYX2, File E19180
- CSA Component Acceptance: File 53787
- cURus Recognition: Guide JDYX8, File E19180
- SEMKO Approval, 32mA-10A
- VDE Approval, 32mA-10A
- BSI Approval, 32mA-10A
- IMQ Approval, 32mA-10A
- MITI Approval, 32mA-6.3A
- CCC Approval, 32mA-6.3A

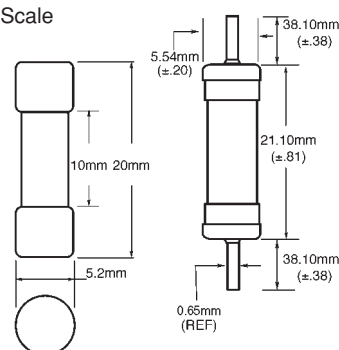
### Ordering

- Specify packaging, product, and option code
- For -R option, drop mA or A from product code (i.e. S506-2-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 AC | Interrupting Rating at Rated Voltage (50Hz) AC | Typical DC Cold Resistance (ohms)* | Minimum Pre-Arching I <sup>2</sup> t (A <sup>2</sup> Sec) AC† | Typical Voltage Drop (mV)‡ |
|--------------|-------------------|------------------------------------------------|------------------------------------|---------------------------------------------------------------|----------------------------|
| S506-32mA    | 250V              | 35A                                            | 21.0                               | 0.0014                                                        | 1050                       |
| S506-40mA    | 250V              | 35A                                            | 13.90                              | 0.0034                                                        | 920                        |
| S506-50mA    | 250V              | 35A                                            | 9.24                               | 0.006                                                         | 800                        |
| S506-63mA    | 250V              | 35A                                            | 6.96                               | 0.012                                                         | 760                        |
| S506-80mA    | 250V              | 35A                                            | 4.42                               | 0.015                                                         | 580                        |
| S506-100mA   | 250V              | 35A                                            | 2.74                               | 0.022                                                         | 490                        |
| S506-125mA   | 250V              | 35A                                            | 1.97                               | 0.034                                                         | 390                        |
| S506-160mA   | 250V              | 35A                                            | 1.27                               | 0.052                                                         | 320                        |
| S506-200mA   | 250V              | 35A                                            | 1.00                               | 0.078                                                         | 340                        |
| S506-250mA   | 250V              | 35A                                            | 0.640                              | 0.17                                                          | 270                        |
| S506-315mA   | 250V              | 35A                                            | 0.450                              | 0.41                                                          | 250                        |
| S506-400mA   | 250V              | 35A                                            | 0.308                              | 0.61                                                          | 210                        |
| S506-500mA   | 250V              | 35A                                            | 0.183                              | 0.67                                                          | 140                        |
| S506-630mA   | 250V              | 35A                                            | 0.186                              | 1.0                                                           | 150                        |
| S506-800mA   | 250V              | 35A                                            | 0.128                              | 2.2                                                           | 75                         |
| S506-1A      | 250V              | 35A                                            | 0.062                              | 2.7                                                           | 80                         |
| S506-1.25A   | 250V              | 35A                                            | 0.045                              | 6.7                                                           | 70                         |
| S506-1.6A    | 250V              | 35A                                            | 0.038                              | 9.7                                                           | 70                         |
| S506-2A      | 250V              | 35A                                            | 0.028                              | 15                                                            | 68                         |
| S506-2.5A    | 250V              | 35A                                            | 0.023                              | 25                                                            | 68                         |
| S506-3.15A   | 250V              | 35A                                            | 0.017                              | 51                                                            | 66                         |
| S506-4A      | 250V              | 40A                                            | 0.012                              | 88                                                            | 66                         |
| S506-5A      | 250V              | 50A                                            | 0.008                              | 150                                                           | 66                         |
| S506-6.3A    | 250V              | 63A                                            | 0.008                              | 214                                                           | 60                         |
| S506-8A      | 250V              | 80A                                            | 0.006                              | 192                                                           | 55                         |
| S506-10A     | 250V              | 100A                                           | 0.004                              | 420                                                           | 54                         |
| S506-12.5A   | 250V              | 125A                                           | 0.004                              | 812                                                           | 45                         |
| S506-15A     | 250V              | 125A                                           | 0.004                              | 1029                                                          | 73                         |

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

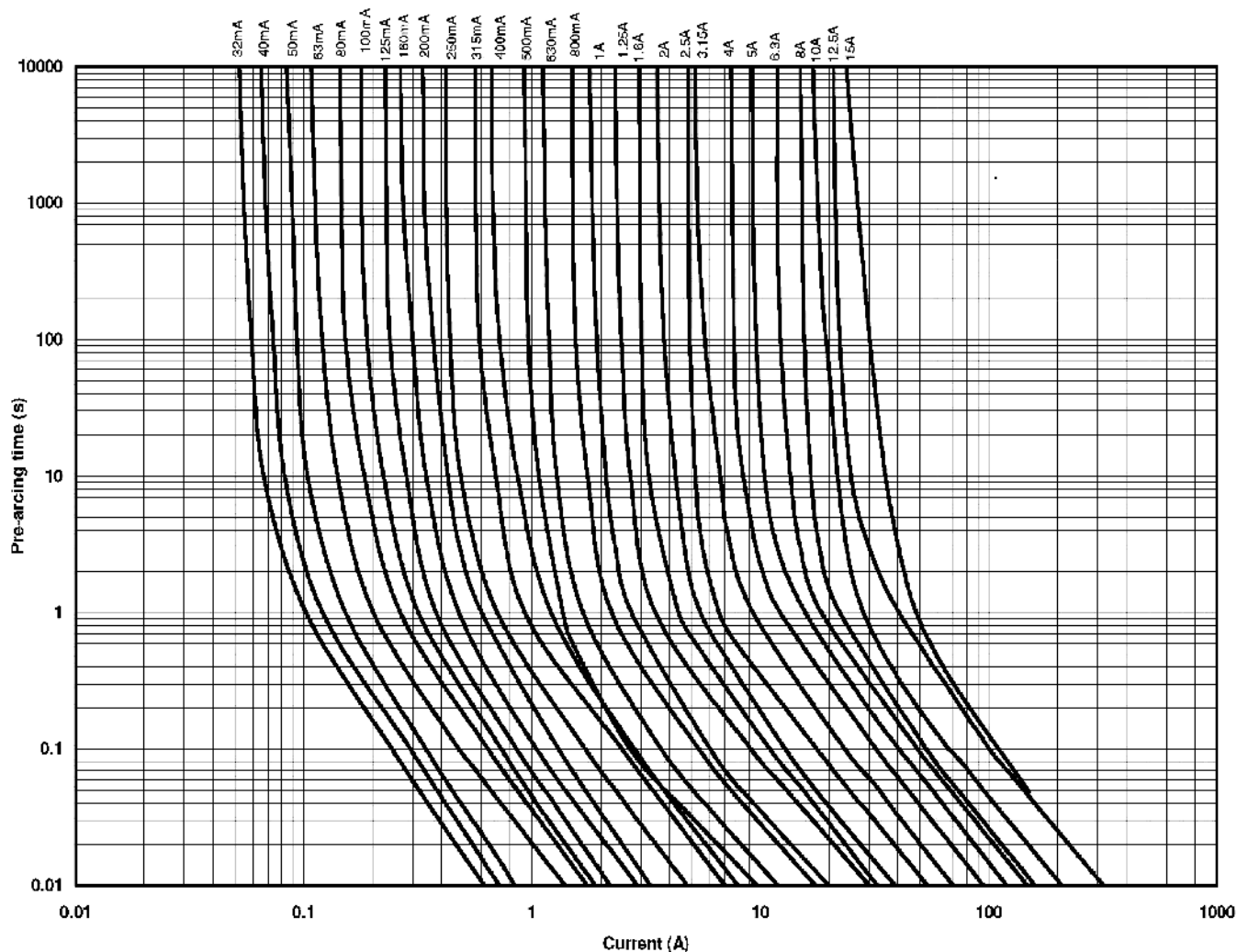
† Minimum Pre-Arching I<sup>2</sup>t (Measured at 10 In and rated voltage)

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

# 5mm x 20mm Fuses

## S506 Series, Time Delay, Glass Tube

### TIME CURRENT CURVE



### PACKAGING CODE

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

### OPTION CODE

| Option Code | Description                                                        |
|-------------|--------------------------------------------------------------------|
| V           | Axial leads - copper tinned wire with nickel plated brass overcaps |
| -R          | RoHS compliant version                                             |

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