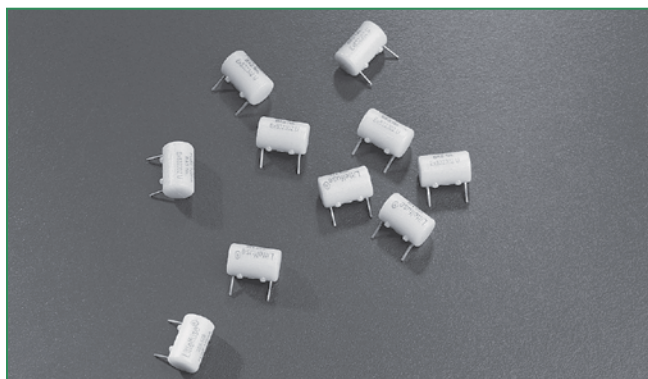


### RoHS Safe-T-Plus Fuse 259 Series

**Baseefa** 


#### Description

The Safe-T-Plus 259 Series offers a range of encapsulated fuses designed to enable greater safety for operating electronic equipment within potentially explosive environments. Originally designed to serve the needs of gas plants, petrochemical and processing industries, these fuses are certified for use within intrinsically safe apparatus (CENELEC EN50014 and EN50020).

The encapsulation material is Polyamide 6 at a minimum depth of 1mm (3mm typically) and has a CTI (Comparative Tracking Index) of greater than 175. The leads are separated by a minimum clearance and creepage distance of 9 mm and hence are suitable for use in intrinsically safe apparatus for voltage not exceeding 125V rms (190V peak).

#### Agency Approvals

| Agency                                                                            | Agency File Number | Ampere Range |
|-----------------------------------------------------------------------------------|--------------------|--------------|
| Baseefa                                                                           | Baseef02ATEX0071U  | 62mA - 1A    |
|  | E10480             | 500mA, 750mA |

#### Electrical Characteristics for Series

| % of Ampere Rating | Opening Time       |
|--------------------|--------------------|
| 100%               | 4 Hours, Minimum   |
| 200%               | 5 Seconds, Maximum |

#### Features

- Hermetically sealed
- 62mA - 5A range options
- Designed to operate within environments where there is danger of gas explosion from faulty circuits
- Meet certification for use within intrinsically safe apparatus for applications such as gas plants, petrochemical and processing industries

#### Applications

- Testing, measuring or processing electronic and electrical equipment

#### Electrical Specifications by Items

| Ampere Rating (A) | Amp Code | Interrupting Rating             | Nominal Cold Resistance (Ohms) | Nominal Melting I <sup>2</sup> t (A <sup>2</sup> Sec.) | Nom Voltage Drop (mV) | Agency Approvals |                                                                                       |
|-------------------|----------|---------------------------------|--------------------------------|--------------------------------------------------------|-----------------------|------------------|---------------------------------------------------------------------------------------|
|                   |          |                                 |                                |                                                        |                       | Baseefa          |  |
| 0.062             | .062     | 50A @ 125 VAC<br>300A @ 125 VDC | 7.00                           | 0.00016                                                | 2.10                  | x                |                                                                                       |
| 0.125             | .125     |                                 | 1.70                           | 0.0012                                                 | 1.30                  | x                |                                                                                       |
| 0.250             | .250     |                                 | 0.67                           | 0.0095                                                 | 0.83                  | x                |                                                                                       |
| 0.375             | .375     |                                 | 0.395                          | 0.025                                                  | 0.81                  | x                |                                                                                       |
| 0.500             | .500     |                                 | 0.302                          | 0.0598                                                 | 0.78                  | x                | x                                                                                     |
| 0.750             | .750     |                                 | 0.175                          | 0.153                                                  | 0.23                  | x                | x                                                                                     |
| 1.00              | 1.00     |                                 | 0.128                          | 0.256                                                  | 0.24                  | x                |                                                                                       |
| 3.00              | 003      |                                 | 0.275                          | 1.27                                                   | 0.131                 |                  |                                                                                       |
| 5.00              | 005      |                                 | 0.0158                         | 4.14                                                   | 0.110                 |                  |                                                                                       |

Schedule of limitations:

- 1) The fuse must be so mounted that creepage and clearance distances aren't impaired in any way.
- 2) When used in intrinsically safe apparatus, it will be necessary to determine a surface temperature classification for the fuse.
- 3) Maximum surface temperature rise at 170% rated current £750mA=40°C, 1A=45°C, 3A=63°C and 5A=114°C.

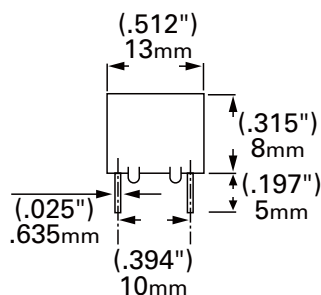
### Product Characteristics

|                                              |                                        |
|----------------------------------------------|----------------------------------------|
| <b>Operating Temperature</b>                 | – 55°C to 90°C                         |
| <b>Thermal Shock</b>                         | Withstands 5 cycles of – 55°C to 125°C |
| <b>Vibration</b>                             | Per MIL-STD-202F                       |
| <b>Insulation Resistance (After Opening)</b> | Greater than 10,000 ohms               |

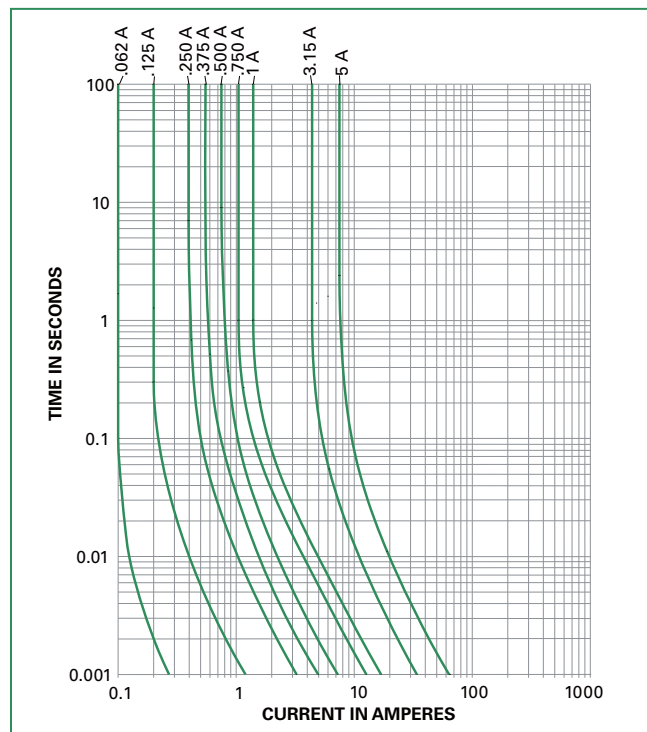
### Soldering Parameters

|                       |                        |
|-----------------------|------------------------|
| <b>Wave Soldering</b> | 260°C, 10 seconds max. |
|-----------------------|------------------------|

### Dimensions



### Average Time Current Curves



### Part Numbering System

**0259.062M**

#### SERIES

#### AMP Code

The dot is positioned before the Packaging Suffix with whole ratings and within the numbering sequence for fractional ratings. Refer to Amp Code column in the Electrical Specifications table.

#### PACKAGING Code

M = Bulk pack, 1000 pcs  
T = Bulk pack, 10 pcs

**Example:**  
1 amp product is  
0259**001**.M  
(.062 amp product shown).