

# Type RSTA

## Time Lag Radial Lead Micro Fuse Series

HF (Pb) RSTA Series

RoHS 6 Compliant

### Description

Sub-miniature, time lag type, 63 VDC, 250 VAC (UL rated 277 VAC) rated fuses designed, approved and complied with IEC 60127-3, standard sheet 4.

### Features

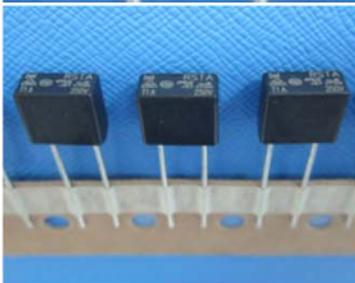
- Time lag, 63 VDC, 250 VAC (UL rated 277 VAC)
- Meet IEC standard 60127-3, sheet 4
- Wide operating temperature range
- Bulk and Tape & Reel packing available
- RoHS 6 compliant
- Halogen Free
- Leadfree

### Applications

Provide individual protection for components or internal circuits.

- Power supplies
- Battery chargers
- Consumer Electronics
- Adapter
- Industrial Controllers

LEAD FREE = (Pb)  
HALOGEN FREE = (HF)



### Physical Specifications

|           |   |
|-----------|---|
| Materials | Base and Cover : Black thermoplastic, UL 94-V0  |
|           | Pins : 100% Matte Tin Plated Copper   |
| Marking   | On Fuse :<br>"bel", "RSTA", "T", "Current Rating", "250V" & " Appropriate Safety Logos "  |
|           | On Label :<br>"bel", "RSTA", "Current Rating", "Voltage Rating", "Interrupting Rating",<br>" Appropriate Safety Logos " and " ♻️ ", " Ⓢ " (China RoHS compliant). |

### Electrical Characteristics (IEC-127-3 STANDARD SHEET 4)

| Rated Current | 1.5In |      | 2.1In |     | 2.75In |     | 4In |     | 10In |     |
|---------------|-------|------|-------|-----|--------|-----|-----|-----|------|-----|
|               | Min   | Max  | Min   | Max | Min    | Max | Min | Max | Min  | Max |
| 1A to 6.3A    | 1     | 2    | 400   | 10  | 150    | 3   | 20  | 150 |      |     |
| inclusive     | hour  | min. | ms    | sec | ms     | sec | ms  | ms  |      |     |

### Safety Agency Approvals

| SAFETY AGENCY | SAFETY AGENCY CERTIFICATE NUMBER | VOLTAGE RATING (V)            | AMPERE RANGE / VOLT @ I.R. ABILITY*   |
|---------------|----------------------------------|-------------------------------|---|
| VDE           | 40039089                         | 1A - 6.3A / 250V ac<br>63V dc | 1A - 6.3A / 250V ac @ 100A<br>1A - 6.3A / 63V dc @ 10In                             |
| ccc PSE       | PSE14020746<br>PSE14020745       |                               | 1A - 5A / 250V ac @ 100A<br>6.3A / 250V ac @ 100A                                   |
| cRU US        | E20624                           |                               | 1A - 6.3A / 277V ac @ 100A<br>1A - 2A / 63V dc @ 65A<br>2.5A - 6.3A / 63V dc @ 100A |
| ccc           | CQC14012105757                   |                               | 1A - 6.3A / 250V ac @ 100A<br>1A - 6.3A / 63V dc @ 10In                             |

\* I.R. = INTERRUPTING RATING = SHORT CIRCUIT RATING (AMPS)

Specifications subject to change without notice



Bel Fuse Inc.  
206 Van Vorst Street  
Jersey City, NJ 07302 USA

+1 201.432.0463  
techhelp@belf.com  
belfuse.com

# Type RSTA

## Time Lag Radial Lead Micro Fuse Series

HF  RSTA Series

RoHS 6 Compliant

### Environmental Specifications

|                           |  |
|---------------------------|--|
| Shock Resistance          | MIL-STD-202G, Method 213B, Test Condition 1 (100 G's peak for 6 milliseconds; Sawtooth waveform) |
| Vibration Resistance      | MIL-STD-202G, Method 201A(10-55 Hz X 3 axis / no load).  |
| Salt Spray Resistance     | MIL-STD-202G, Method 101E, Test Condition B(48 hrs).   |
| Solderability             | MIL-STD-202G, Method 208H  |
| Resistance to solder Heat | MIL-STD-202G, Method 210F, Test Condition C. Top Side.(260 °C,20 sec)                            |
| Moisture Resistance       | MIL-STD-202G, Method 202G, Method 106G   |
| Operating Temperature     | -55 °C to +125 °C  |

### Electrical Specifications

| Part Number  | Ampere Rating | Typical Cold Resistance (ohm) | Volt-drop @100% In (Volt) max. | Voltage and Interrupting Ratings  | Melting I <sup>2</sup> T <10 mSec (A <sup>2</sup> Sec) | Melting I <sup>2</sup> T @10 In (A <sup>2</sup> Sec) | Maximum Power Dissipation (W) | Agency Approvals  |   |   |   |
|--------------|---------------|-------------------------------|--------------------------------|---|--|--|-------------------------------|---|---|---|---|
|              |               |                               |                                |   |  |  |                               |  |  |  |  |
| 0697A1000-XX | 1A            | 0.082                         | 0.115                          | See Table of Safety Approvals on Page 1 for Voltage and associated Interrupting Ratings | 6.6  | 9.2  | 0.44                          | Y   | Y   | Y   | Y   |
| 0697A1250-XX | 1.25A         | 0.064                         | 0.110                          |   | 10.5   | 12.0   | 0.56                          | Y   | Y   | Y   | Y   |
| 0697A1600-XX | 1.6A          | 0.044                         | 0.100                          |   | 16   | 18   | 0.60                          | Y   | Y   | Y   | Y   |
| 0697A2000-XX | 2A            | 0.032                         | 0.090                          |   | 26   | 30   | 0.63                          | Y   | Y   | Y   | Y   |
| 0697A2500-XX | 2.5A          | 0.025                         | 0.087                          |   | 45   | 51   | 0.70                          | Y   | Y   | Y   | Y   |
| 0697A3150-XX | 3.15A         | 0.018                         | 0.083                          |   | 66   | 75   | 0.88                          | Y   | Y   | Y   | Y   |
| 0697A4000-XX | 4A            | 0.014                         | 0.080                          |   | 101  | 118  | 0.92                          | Y   | Y   | Y   | Y   |
| 0697A5000-XX | 5A            | 0.009                         | 0.075                          |   | 111  | 117  | 0.70                          | Y   | Y   | Y   | Y   |
| 0697A6300-XX | 6.3A          | 0.007                         | 0.075                          |   | 104  | 115  | 0.98                          | Y   | Y   | Y   | Y   |

Consult manufacturer for other ratings  
XX - Packaging code (see " ordering information")

Specifications subject to change without notice



Bel Fuse Inc.  
206 Van Vorst Street  
Jersey City, NJ 07302 USA

+1 201.432.0463  
techhelp@belf.com  
[belfuse.com](http://belfuse.com)

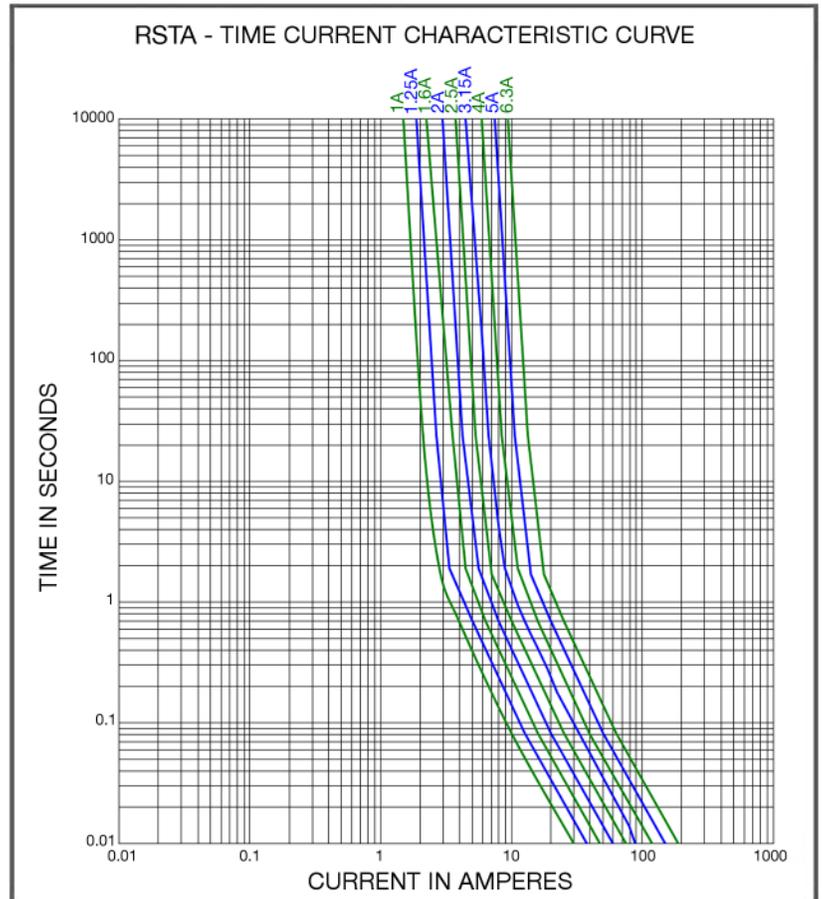
# Type RSTA

## Time Lag Radial Lead Micro Fuse Series

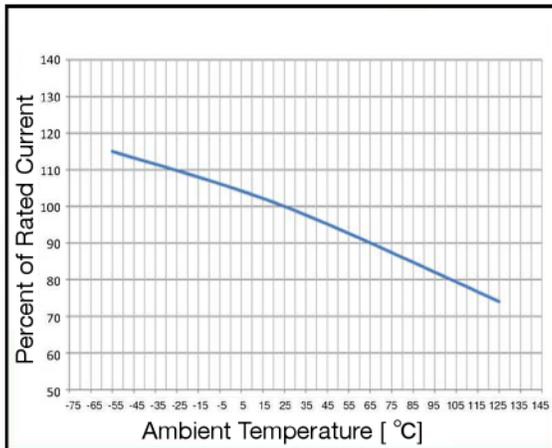
HF  $\text{Pb}$  RSTA Series

RoHS 6 Compliant

### Average Time Current Curve

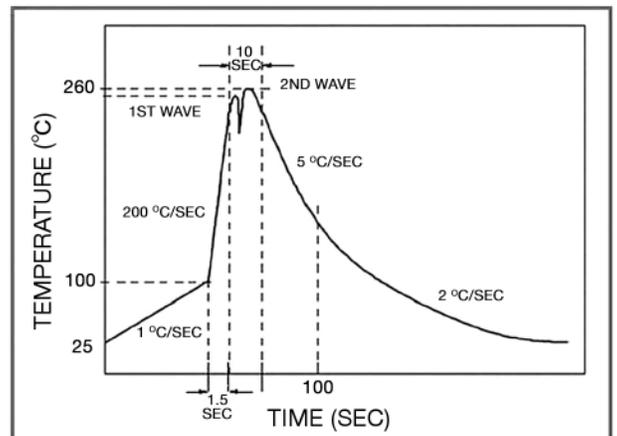


### Temperature Derating Curve



### Soldering Parameters

| Lead-free Wave Soldering Profile                     |  |
|--|--|
| Wave Soldering Parameter                             |  |
| Average ramp-up rate                                 | 200 °C / second                                |
| Heating rate during preheat                          | typical 1 - 2 °C / second<br>Max 4 °C / second |
| Final preheat temperature                            | within 125 °C of soldering temperature         |
| Peak temperature $T_p$                               | 260 °C   |
| Time within +0 °C / -5 °C of actual peak temperature | 10 seconds                                     |
| Ramp-down rate                                       | 5 °C / second max.                             |



Specifications subject to change without notice



Bel Fuse Inc.  
206 Van Vorst Street  
Jersey City, NJ 07302 USA

+1 201.432.0463  
techhelp@belf.com  
[belfuse.com](http://belfuse.com)

# Type RSTA

## Time Lag Radial Lead Micro Fuse Series

HF  RSTA Series

RoHS 6 Compliant

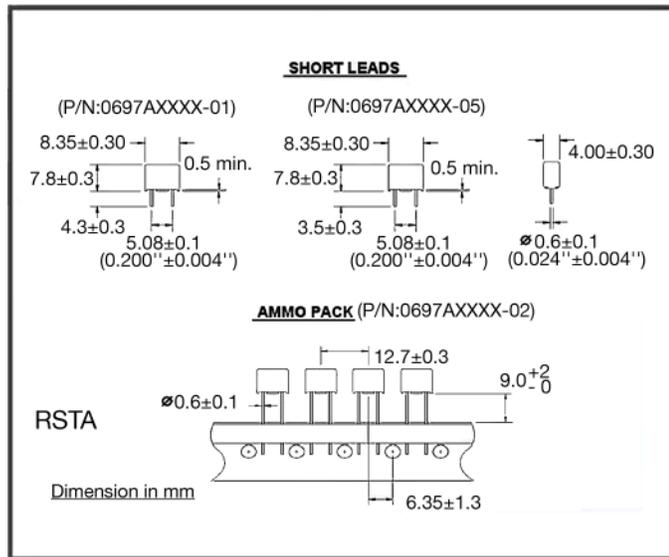
### Fuse FGNO Explanation

0697 A [XXXX] - XX

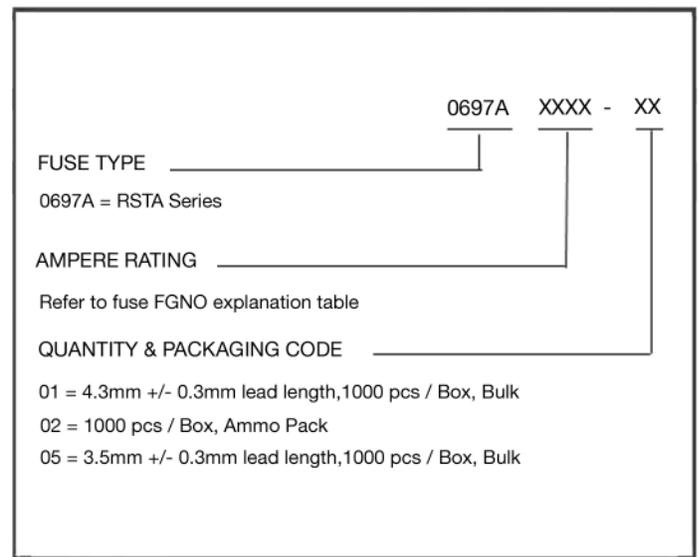
0697A=RSTA; [XXXX]=Ampere Rating; XX=See Ordering Information as below

| Fraction | Decimal | Amps | Bel FGNO[XXXX] |
|----------|---------|------|----------------|
|          | 1.0     | 1    | 1000           |
| 1-1/4    | 1.25    | 1.25 | 1250           |
|          | 1.60    | 1.6  | 1600           |
|          | 2.0     | 2    | 2000           |
| 2-1/2    | 2.5     | 2.5  | 2500           |
|          | 3.15    | 3.15 | 3150           |
|          | 4.0     | 4    | 4000           |
|          | 5.0     | 5    | 5000           |
|          | 6.3     | 6.3  | 6300           |

### Mechanical Dimensions



### Ordering Information



### Packaging

| Packaging Option             | Packaging Specification | Quantity | Packaging Code |
|------------------------------|-------------------------|----------|----------------|
| Bulk / bag, 1000 / box       | N/A                     | 1000     | 01 , 05        |
| 12.7 mm pitch, On Tape / box | IEC-286-2               | 1000     | 02             |

Specifications subject to change without notice



Bel Fuse Inc.  
206 Van Vorst Street  
Jersey City, NJ 07302 USA

+1 201.432.0463  
techhelp@belf.com  
[belfuse.com](http://belfuse.com)

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Bel:](#)

[RSTA 2.5 BULK](#) [RSTA 4 BULK](#) [RSTA 1.6 BULK](#) [RSTA 1.25 BULK](#) [RSTA 3.15 BULK](#) [RSTA 2 BULK](#) [RSTA 5 BULK](#)  
[RSTA 1 BULK](#) [RSTA 6.3 BULK](#) [RSTA 1.25 AMMO PACK](#) [RSTA 1.6 AMMO PACK](#) [RSTA 1.25 BULK, SHORT LEAD](#)  
[RSTA 3.15 AMMO PACK](#) [RSTA 4 AMMO PACK](#) [RSTA 2.5 AMMO PACK](#) [RSTA 2.5 BULK, SHORT LEAD](#) [RSTA 5](#)  
[AMMO PACK](#) [RSTA 2 AMMO PACK](#) [RSTA 6.3 BULK, SHORT LEAD](#) [RSTA 1 AMMO PACK](#) [RSTA 6.3 AMMO PACK](#)  
[RSTA 1 BULK, SHORT LEAD](#) [RSTA 3.15 BULK, SHORT LEAD](#) [RSTA 4 BULK, SHORT LEAD](#) [RSTA 5 BULK,](#)  
[SHORT LEAD](#) [RSTA 1.6 BULK, SHORT LEAD](#) [RSTA 2 BULK, SHORT LEAD](#)