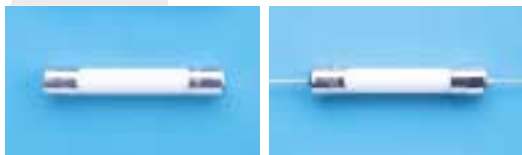


# Type 3AB / 3ABP

## Fast Blow Fuse Series

1/4 x 1 1/4 inch Ceramic Tube  
RoHS Compliant

3ABD0806



### Electrical Characteristics (UL/CSA STD. 248-14)

| Testing Current | Blow Time |         | Amp Range  |
|-----------------|-----------|---------|------------|
|                 | Minimum   | Maximum |            |
| 100%            | 4 Hrs.    | N/A     | 0.1A - 20A |
| 135%            | N/A       | 1 Hr    | 0.1A - 10A |
| 200%            | N/A       | 5 sec   | 0.1A - 10A |
|                 | N/A       | 120 sec | 12A - 20A  |

### Approvals



| Safety Agency Approvals                                                                                                                               | Type       | Amp range / Volt @ I.R. ability                                                                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>UL Listed File No. E20624</li> <li>SP Certified File No. LR39772</li> <li>UL Listed File No. E20624</li> </ul> | 3AB / 3ABP | 100mA - 1A / 250V AC@ 35A<br>>1A - 3.5A / 250V AC@ 100A<br>>3.5A - 10A / 250V AC@ 200A<br>100mA - 10A / 125V AC@ 10,000A                            |
| <ul style="list-style-type: none"> <li>File No. JET1037-31003-1001, JET1037-31003-1003</li> <li>File No. JET1037-31003-1002</li> </ul>                |            | >10A - 15A / 250V AC@ 750A<br>>15A - 20A / 250V AC@ 1,500A<br>>10A - 20A / 125V AC@ 10,000A<br>1A - 5A / 125V AC@ 500A<br>>5A - 15A / 125V AC@ 300A |

### RoHS Compliant Product

For RoHS compliant version, add suffix "R" after catalog number

### Operating Temperature

-55°C to +125°C

### Physical Specification

#### Materials

Ceramic body / Nickel Plated Brass Caps

Lead wire:

Tin plated Copper; Diameter 0.040" for all ratings

#### Marking

On fuse:

"bel", "3AB", "Current Rating", "Voltage Rating",  
"Appropriate Safety Logos", "✓" (RoHS Version)

On label:

"bel", "3AB" or "3ABP", "Current Rating", "Voltage Rating",  
"Interrupting Rating", "Appropriate Safety Logos"  
and "✓" + suffix "R" for RoHS Version

Voltage on fuse:

125V and 250V for 750mA - 20A rating,  
250V for below 750mA rating

#### Packaging

1. In bulk:

3AB - 1,000 pcs per box; 3ABP - 500 pcs per box

2. On Axial Tape & Reel:

1,000 pcs per reel

3. Tape & Reel specification:

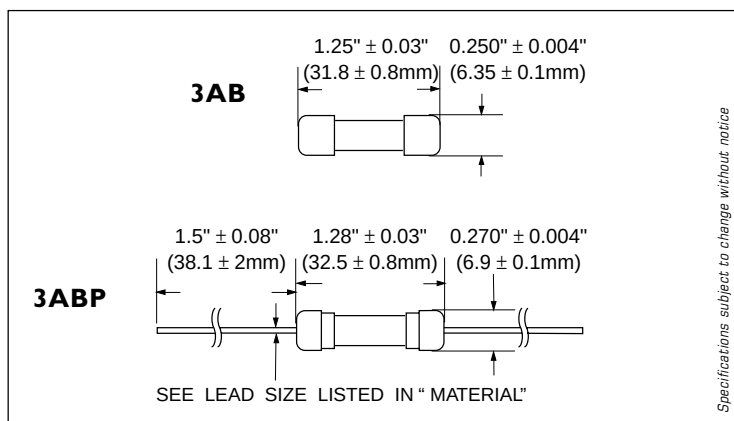
per EIA-296-E & IEC 286-1

@ 10mm Pitch and 73mm inside Tape Spacing

| Catalog Number | RoHS Suffix | Ampere Rating | Typical Cold Resistance (ohm) | Volt-drop @100% In (Volt) max. | 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) |
|----------------|-------------|---------------|-------------------------------|--------------------------------|---------------------------------------------------------|------------------------------------------------------|-------------------------------|
| 3AB (P) 100    | -R          | 100mA         | 12.5                          | 4.5                            | 0.002                                                   | 0.002                                                | 0.59                          |
| 3AB (P) 125    | -R          | 125mA         | 12.0                          | 4.5                            | 0.004                                                   | 0.003                                                | 0.74                          |
| 3AB (P) 160    | -R          | 160mA         | 8.3                           | 4.2                            | 0.008                                                   | 0.005                                                | 0.87                          |
| 3AB (P) 200    | -R          | 200mA         | 5.7                           | 3.9                            | 0.014                                                   | 0.010                                                | 1.02                          |
| 3AB (P) 250    | -R          | 250mA         | 3.9                           | 3.6                            | 0.025                                                   | 0.017                                                | 1.19                          |
| 3AB (P) 300    | -R          | 300mA         | 2.7                           | 3.4                            | 0.044                                                   | 0.032                                                | 1.40                          |
| 3AB (P) 375    | -R          | 375mA         | 2.0                           | 3.2                            | 0.07                                                    | 0.05                                                 | 1.58                          |
| 3AB (P) 500    | -R          | 500mA         | 0.75                          | 1.1                            | 0.14                                                    | 0.10                                                 | 1.92                          |
| 3AB (P) 750    | -R          | 750mA         | 0.24                          | 0.2                            | 0.75                                                    | 0.74                                                 | 0.30                          |
| 3AB (P) 1      | -R          | 1A            | 0.16                          | 0.23                           | 1.43                                                    | 1.44                                                 | 0.37                          |
| 3AB (P) 1.25   | -R          | 1.25A         | 0.114                         | 0.21                           | 2.45                                                    | 2.51                                                 | 0.44                          |
| 3AB (P) 1.6    | -R          | 1.6A          | 0.084                         | 0.20                           | 4.2                                                     | 4.4                                                  | 0.51                          |
| 3AB (P) 2      | -R          | 2A            | 0.063                         | 0.18                           | 7.2                                                     | 7.6                                                  | 0.59                          |
| 3AB (P) 2.5    | -R          | 2.5A          | 0.047                         | 0.170                          | 12                                                      | 13                                                   | 0.70                          |
| 3AB (P) 3      | -R          | 3A            | 0.035                         | 0.162                          | 21                                                      | 23                                                   | 0.83                          |
| 3AB (P) 3.5    | -R          | 3.5A          | 0.030                         | 0.157                          | 28                                                      | 31                                                   | 0.91                          |
| 3AB (P) 4      | -R          | 4A            | 0.026                         | 0.154                          | 36                                                      | 40                                                   | 1.0                           |
| 3AB (P) 5      | -R          | 5A            | 0.020                         | 0.146                          | 63                                                      | 70                                                   | 1.2                           |
| 3AB (P) 6      | -R          | 6A            | 0.015                         | 0.139                          | 107                                                     | 123                                                  | 1.4                           |
| 3AB (P) 7      | -R          | 7A            | 0.013                         | 0.135                          | 141                                                     | 162                                                  | 1.6                           |
| 3AB (P) 8      | -R          | 8A            | 0.012                         | 0.132                          | 184                                                     | 214                                                  | 1.7                           |
| 3AB (P) 10     | -R          | 10A           | 0.009                         | 0.125                          | 316                                                     | 372                                                  | 2.0                           |
| 3AB (P) 12     | -R          | 12A           | 0.008                         | 0.160                          | 501                                                     | 597                                                  | 2.3                           |
| 3AB (P) 15     | -R          | 15A           | 0.006                         | 0.140                          | 845                                                     | 1023                                                 | 2.7                           |
| 3AB (P) 20     | -R          | 20A           | 0.004                         | 0.120                          | 1598                                                    | 1968                                                 | 3.0                           |

Consult manufacturer for other ratings

### Mechanical Dimensions



ORDERING INFORMATION SEE LAST 2 PAGES

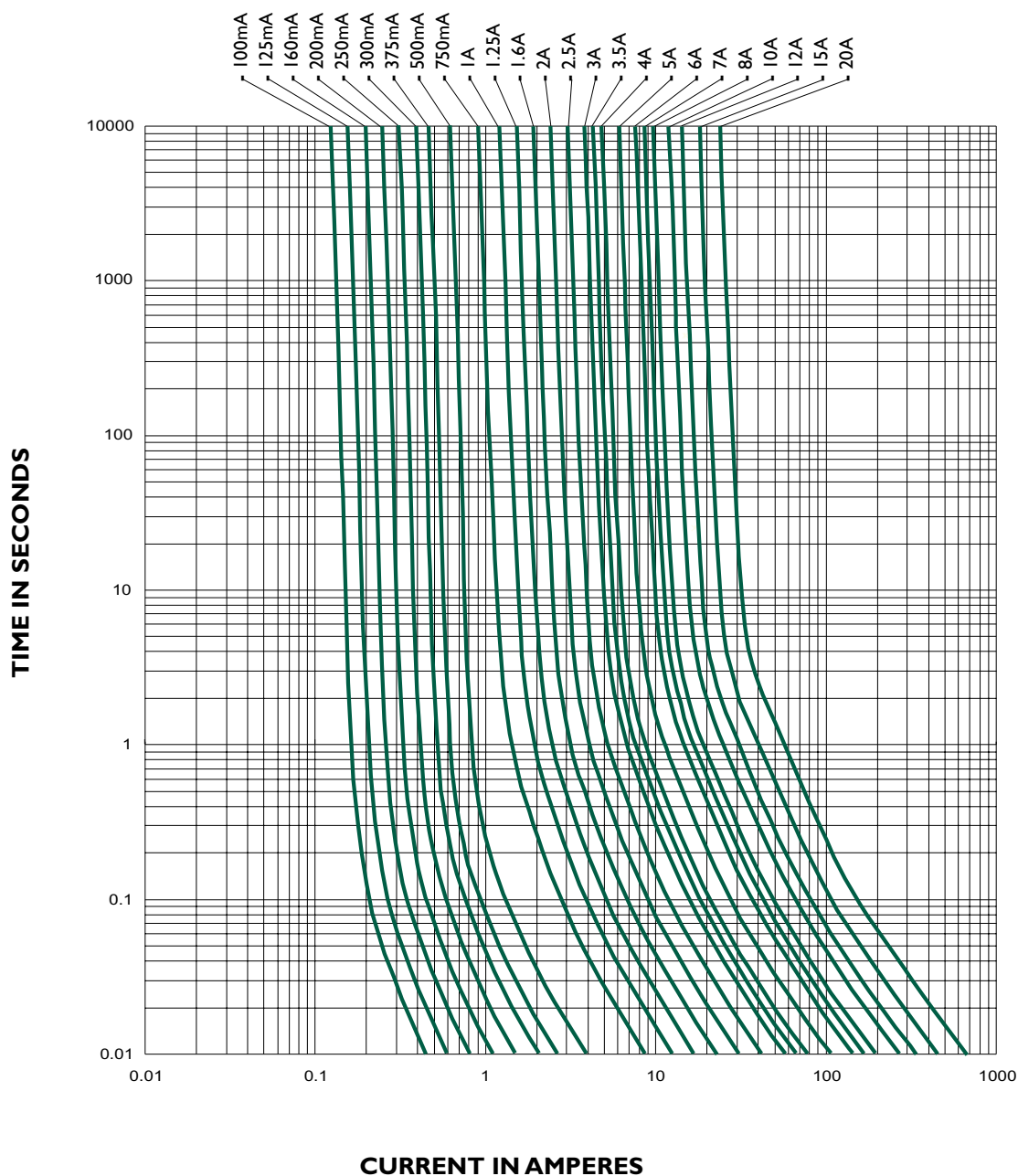
# Type 3AB / 3ABP

Fast Blow Fuse Series

1/4 x 1 1/4 inch Ceramic Tube  
RoHS Compliant

3ABC0806

## 3AB / 3ABP - TIME CURRENT CHARACTERISTIC CURVE



Specifications subject to change without notice

NOTE - see important information under "User Guide" on P.08

### Corporate Office

**Bel Fuse Inc.**

206 Van Vorst Street, Jersey City, NJ 07302  
Tel: 201-432-0463  
Fax: 201-432-9542  
E-Mail: [belfuse@belfuse.com](mailto:belfuse@belfuse.com)  
Website: [www.belfuse.com](http://www.belfuse.com)

### Far East Office

**Bel Fuse Ltd.**

8F/8 Luk Hop Street  
San Po Kong  
Kowloon, Hong Kong  
Tel: 852-2328-5515  
Fax: 852-2352-3706

### European Office

**Bel Fuse Europe Ltd.**

Preston Technology Management Centre  
Marsh Lane, Preston PR1 8UD  
Lancashire, U.K  
Tel: 44-1772-556601  
Fax: 44-1772-888366