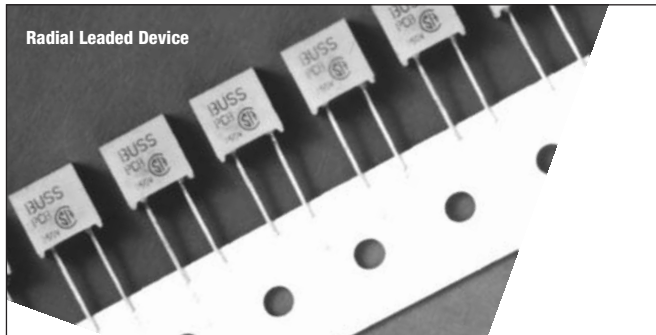


## Subminiature, Radial Leaded, Fast-Acting Fuses PC-Tron Series

RoHS  
2002/95/EC



### Description

- Radial leaded, fast-acting thru-hole fuse
- Ideal for high voltage DC applications
- Board washable
- Optional mounting socket available (PCS)
- Available in different lead configurations

| AC Time-Current Characteristics |                   |
|---------------------------------|-------------------|
| % of Amp Rating                 | Opening Time      |
| 100%                            | 4 hours minimum   |
| 200%                            | 10 second maximum |

### Agency Information

- UL Recognized: E19180
- CSA: 42731

### Part Number System/Ordering - An Option Code Must Be Selected

- Specify packaging code prefix, product and option code suffix

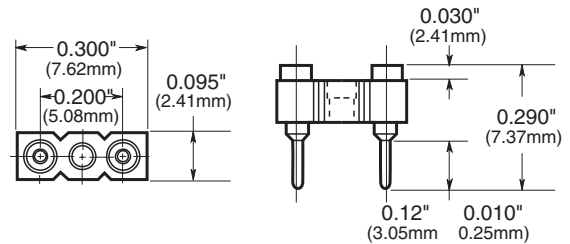
Packaging Code Prefix     BK         PCB-         1/2         -R      
 Fuse Series \_\_\_\_\_  
 Amp Rating \_\_\_\_\_  
 Option Code Suffix \_\_\_\_\_

### DC Application

The PC-Tron subminiature fuse is UL Recognized for DC supplementary overcurrent protection to provide individual protection for components or internal circuits in equipment. Suitability for a specific application is dependent on time constants and capacitance values. It is the responsibility of the customer to evaluate the information provided for applicability to their particular application.

### PCS Mounting Socket (RoHS compliant)

- Available as option. Specify catalog number BK/PCS (100 in a polybag) and short fuse lead length — PCC or PCE



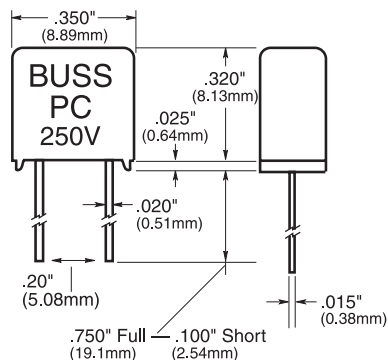
### Specifications

| Catalog Number                   | Lead Length              | AC Voltage Rating | AC Interrupting      | DC Voltage Rating | DC Interrupting Min. | DC Interrupting Max. |
|----------------------------------|--------------------------|-------------------|----------------------|-------------------|----------------------|----------------------|
| PCB-1/2, 3/4, 1, 1-1/2, 2, 2-1/2 | Full - 0.750" (straight) | 250V              | 50A@250V - 10kA@125V | 450V              | 300                  | 5900A                |
| PCB-3                            | Full - 0.750" (straight) | 250V              | 50A@250V             | 450V              | 300                  | 4400A                |
| PCB-4                            | Full - 0.750" (straight) | -                 | -                    | 450V              | 300                  | 2500A                |
| PCC-1/2, 3/4, 1, 1-1/2, 2, 2-1/2 | Short 0.100" (straight)  | 250V              | 50A@250V - 10kA@125V | 450V              | 300                  | 5900A                |
| PCC-3                            | Short 0.100" (straight)  | 250V              | 50A@250V - 10kA@125V | 450V              | 300                  | 4400A                |
| PCC-4                            | Short 0.100" (straight)  | -                 | -                    | 450V              | 300                  | 2500A                |
| PCD-5                            | Full - 0.750" (straight) | 125V              | 10kA@125V            | 400V              | 300                  | 1000A                |
| PCE-5                            | Short 0.100" (straight)  | 125V              | 10kA@125V            | 400V              | 300                  | 1000A                |
| PCF-1/2, 3/4, 1, 1-1/2, 2, 2-1/2 | 0.475"                   | 250V              | 50A@250V - 10kA@125V | 450V              | 300                  | 5900A                |
| PCF-3                            | 0.475"                   | 250V              | 50A@250V - 10kA@125V | 450V              | 300                  | 4400A                |
| PCG-5                            | 0.475"                   | 125V              | 10kA@125V            | 400V              | 300                  | 1000A                |
| PCH-1/2, 3/4, 1, 1-1/2, 2, 2-1/2 | 0.125"                   | 250V              | 50A@250V - 10kA@125V | 450V              | 300                  | 5900A                |
| PCH-3                            | 0.125"                   | 250V              | 50A@250V - 10kA@125V | 450V              | 300                  | 4400A                |
| PCH-4                            | 0.125"                   | -                 | -                    | 450V              | 300                  | 2500A                |
| PCI-5                            | 0.125"                   | 125V              | 10kA@125V            | 400V              | 300                  | 1000A                |

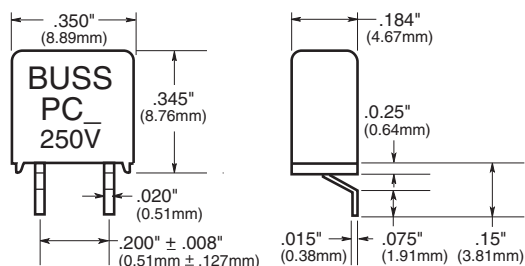
Device designed to carry rated current for four hours minimum. An operating current of 80% or less of rated current is recommended, with further derating required at elevated ambient temperatures.

Dimensions - mm ( $\pm 0.005"/0.13\text{mm}$ )

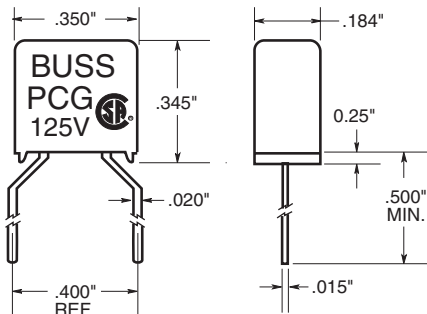
### Standard Fuse (PCB, PCD)



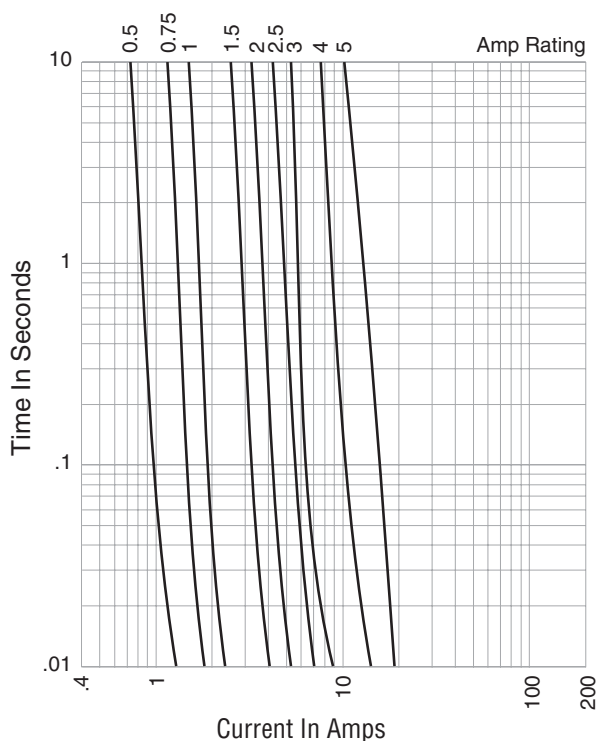
### Dimensional Data (PCH, PCI)



### Dimensional Data (PCF, PCG)



### Time-Current Characteristic Curves—Average Melt



### Max. Total Clearing I<sup>2</sup>t (Amps<sup>2</sup> Sec.)

| Amp Rating | 125Vac |        | 250Vac  |           |
|------------|--------|--------|---------|-----------|
|            | 50A    | 1,000A | 10,000A | 35A & 50A |
| 1/2A       | 0.006  | 0.006  | 0.006   | 0.006     |
| 3/4A       | 0.016  | 0.016  | 0.016   | 0.016     |
| 1A         | 0.020  | 0.020  | 0.020   | 0.020     |
| 1-1/2A     | 0.090  | 0.090  | 0.090   | 0.090     |
| 2A         | 0.200  | 0.200  | 0.200   | 0.200     |
| 2-1/2A     | 0.300  | 0.300  | 0.300   | 0.300     |
| 3A         | 0.750  | 0.750  | 0.750   | 0.750     |
| 5A         | 5.0    | 5.0    | 5.0     | —         |

Note: Power Factor > 0.90.

### Packaging Code

| Packaging Code Prefix | Description/Quantity       |
|-----------------------|----------------------------|
| Blank                 | 5 fuses                    |
| BK                    | 100 fuses in a carton      |
| TR*                   | 500 fuses on Tape-and-Reel |

\* Only for PCB and PCD

### Option Code

| Option Code Suffix | Description    |
|--------------------|----------------|
| -R                 | RoHS Compliant |
| -SD                | Solder Dipped  |

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[BK-PCB-3-4](#) [BK-PCH-5](#) [BK-PCJ-1](#) [BK-PCL-5](#) [PCB-1-1-2](#) [PCB-1-2](#) [PCB-3-4](#) [PCC-1-1-2](#) [PCC-2-1-2](#) [PCC-3-4](#)