

# 5 x 20mm Fuses

## GDB Series, Fast-Acting, Glass Tube

### Description

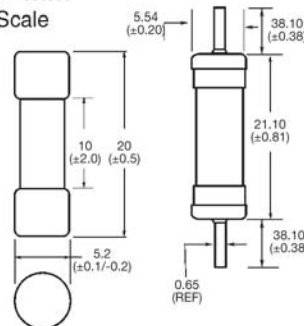
- Fast-acting, low breaking capacity
- 5 x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Optional axial leads are .032" x 1.5" copper tinned
- Designed to IEC 60127-2 (32mA-10A)



| I <sub>n</sub> | 1.5 I <sub>n</sub> |        | 2.1 I <sub>n</sub> |        | 2.75 I <sub>n</sub> |        | 4 I <sub>n</sub> |     | 10 I <sub>n</sub> |
|----------------|--------------------|--------|--------------------|--------|---------------------|--------|------------------|-----|-------------------|
|                | min                | max    | min                | max    | min                 | max    | min              | max | max               |
| 32mA-100mA     | 60 min             | 30 min | 10 ms              | 500 ms | 3 ms                | 100 ms | 20 ms            |     |                   |
| 125mA-6.3A     | 60 min             | 30 min | 50 ms              | 2 sec  | 10 ms               | 300 ms | 20 ms            |     |                   |
| 8A-10A         | 30 min             | 30 min | 50 ms              | 2 sec  | 10 ms               | 400 ms | 40 ms            |     |                   |

### Dimensions - mm

Drawing Not to Scale



### Agency Information

- UL Recognized Card: Guide JDYX2, File E19180
- VDE Approval: File 40014109

### Ordering

Specify product code

- Insert packaging code prefix before part number. E.g. BK/GDB-250mA
- Ratings above 6.3A have a 0.8mm diameter lead
- With TR2 packaging code, lead wire length is 19.05mm

Specify product code

- For axial leads, insert "V" between catalog series and amp rating. E.g. BK/GDB-V-250mA

### Specifications

| Part Number | Voltage Rating Vac | Interrupting Rating (amps) at Rated Voltage (50Hz) Vac | Typical DC Cold Resistance (Ω)* | Typical Melting I <sup>†</sup> t AC† | Maximum Voltage Drop (mV)‡ | Agency Approval |     |
|-------------|--------------------|--|---------------------------------|--------------------------------------|----------------------------|-----------------|-----|
|             |                    |  |                                 |                                      |                            | UR              | VDE |
| GDB-32mA    | 250                | 35   | 40                              | 0.000047                             | 3200                       |                 |     |
| GDB-40mA    | 250                | 35   | 25                              | 0.00011                              | 2500                       |                 |     |
| GDB-50mA    | 250                | 35   | 17                              | 0.00020                              | 2400                       |                 |     |
| GDB-63mA    | 250                | 35   | 12.5                            | 0.00057                              | 2000                       |                 |     |
| GDB-80mA    | 250                | 35   | 5.0                             | 0.0012                               | 1200                       |                 |     |
| GDB-100mA   | 250                | 35   | 3.8                             | 0.003                                | 1100                       |                 |     |
| GDB-125mA   | 250                | 35   | 2.8                             | 0.005                                | 1000                       |                 |     |
| GDB-160mA   | 250                | 35   | 9.1                             | 0.008                                | 2000                       | X               | X   |
| GDB-200mA   | 250                | 35   | 6.8                             | 0.016                                | 1700                       | X               | X   |
| GDB-250mA   | 250                | 35   | 4.3                             | 0.28                                 | 1400                       | X               | X   |
| GDB-315mA   | 250                | 35   | 3.1                             | 0.58                                 | 1300                       | X               | X   |
| GDB-400mA   | 250                | 35   | 2.0                             | 0.18                                 | 1100                       | X               | X   |
| GDB-500mA   | 250                | 35   | 0.26                            | 0.18                                 | 220                        | X               | X   |
| GDB-630mA   | 250                | 35   | 0.20                            | 0.35                                 | 220                        | X               | X   |
| GDB-800mA   | 250                | 35   | 0.14                            | 0.67                                 | 190                        | X               | X   |
| GDB-1A      | 250                | 35   | 0.125                           | 0.60                                 | 200                        | X               | X   |
| GDB-1.25A   | 250                | 35   | 0.096                           | 0.84                                 | 200                        | X               | X   |
| GDB-1.6A    | 250                | 35   | 0.066                           | 1.6                                  | 190                        | X               | X   |
| GDB-2A      | 250                | 35   | 0.043                           | 4.2                                  | 150                        | X               | X   |
| GDB-2.5A    | 250                | 35   | 0.034                           | 6.1                                  | 150                        | X               | X   |
| GDB-3.15A   | 250                | 35   | 0.025                           | 13                                   | 130                        | X               | X   |
| GDB-4A      | 250                | 40   | 0.021                           | 22                                   | 130                        | X               | X   |
| GDB-5A      | 250                | 50   | 0.014                           | 42                                   | 120                        | X               | X   |
| GDB-6.3A    | 250                | 63   | 0.010                           | 69                                   | 120                        | X               | X   |
| GDB-8A      | 250                | 80   | 0.010                           | N/A                                  | 120                        | X               | X   |
| GDB-10A     | 250                | 100  | 0.008                           | N/A                                  | 120                        | X               | X   |

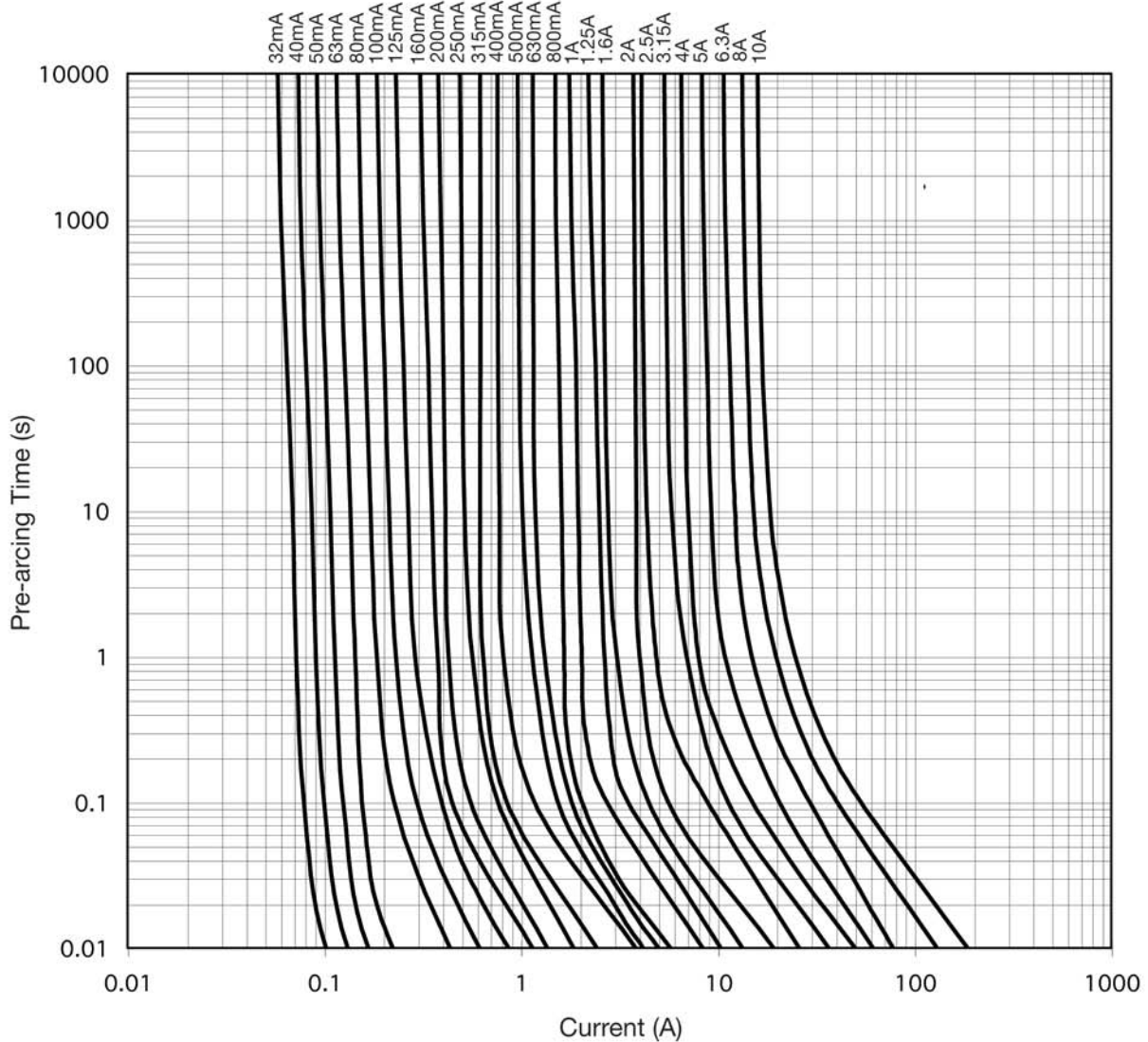
\* DC Cold Resistance (Measured at <10% of rated current)

† Typical Melting I<sup>†</sup>t (I<sup>†</sup>t was measured at listed interrupting rating and rated voltage)

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

# Time-Current Curve

## Nominal Time-Current Characteristics



### Packaging Code

| Packaging Prefix | Description   |
|------------------|---|
| BK               | 100 fuses packed into a cardboard carton                          |
| BK1              | 1,000 fuses packed into a poly bag                                |
| TR2              | 1,500 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 endcaps |

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#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.