

# ANTREX Electronics

Electronic Components Sourcing Information

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## Product Reference Information

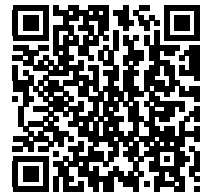
**Part Number:** BK/GDB-V-50MA  
**Manufacturer:** Eaton - Electronics Division  
**Package:** Bulk  
**Availability:** Please confirm with sales

**Product Page:**

<https://antrexco.com/product/details/eaton-electronics-division/bk-gdb-v-50ma.html>

**Request a Quote:**

[Submit RFQ for this part](#)



Scan for product page

## Contact Information

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## Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

**Note:**

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.

## 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)

| Electrical Characteristics |                  |                  |                   |        |                |        |                 |
|----------------------------|------------------|------------------|-------------------|--------|----------------|--------|-----------------|
| $I_n$                      | 1.5 $I_n$<br>min | 2.1 $I_n$<br>max | 2.75 $I_n$<br>min | max    | 4 $I_n$<br>min | max    | 10 $I_n$<br>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           |

#### 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

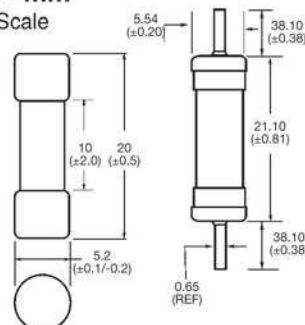
Specify product code

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



#### Dimensions - mm

Drawing Not to Scale



#### Specifications

| Part Number | Voltage Rating<br>Vac | Interrupting Rating (amps)<br>at Rated Voltage (50Hz)<br>Vac | Typical DC Cold Resistance<br>( $\Omega$ )* | Typical Melting $I^2t$<br>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   |

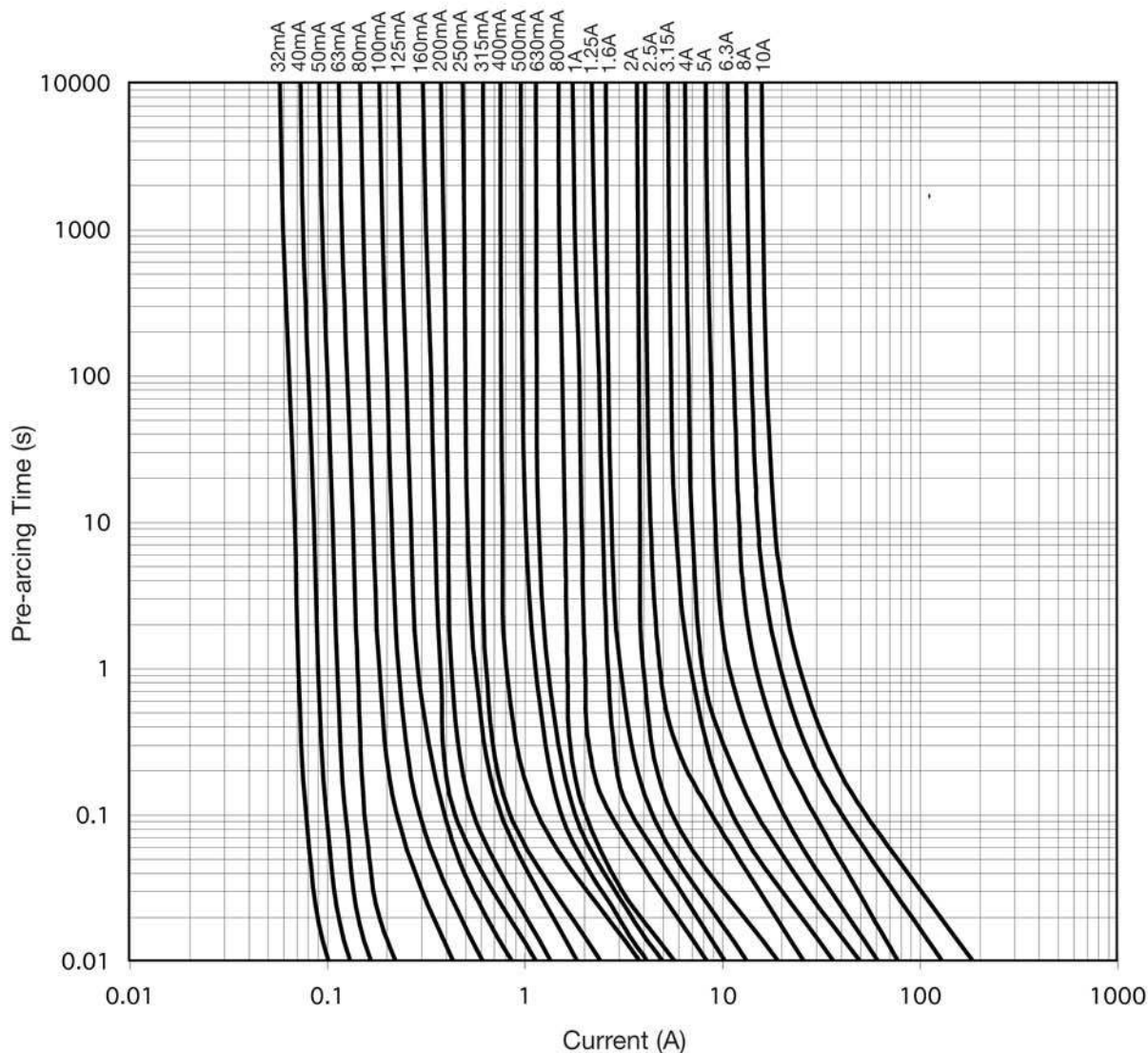
\* DC Cold Resistance (Measured at <10% of rated current)

† Typical Melting  $I^2t$  ( $I^2t$  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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