

GDB

5 mm x 20 mm Fast-acting glass tube fuses



Product features

- Fast-acting, low breaking capacity
- 5 x 20mm physical size
- Glass tube, nickel-plated brass endcap construction
- Optional axial leads are 0.032" x 1.5" copper tinned
- Designed to IEC 60127-2 (32 mA- 10 A)

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 6.3 A have a 0.8 mm diameter lead
- With TR2 packaging code, lead wire length is 19.05 mm
- Specify option code if desired: For axial leads, insert "V" between catalog series and amp rating. E.g. BK/GDB-V-250mA

| Electrical Characteristics | | | | | | | |
|----------------------------|--------------------|--------|--------------------|--------|---------------------|--------|-------------------|
| I _n | 1.5 I _n | | 2.1 I _n | | 2.75 I _n | | 10 I _n |
| | min | max | min | max | min | 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 |

Specifications

| Part Number | Voltage Rating Vac | Interrupting Rating (amps) at Rated Voltage (50Hz) Vac | Typical DC Cold Resistance (Ω)* | Typical Melting I ² 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)

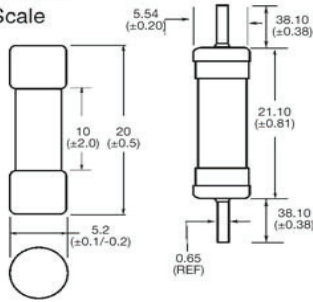
† Typical Melting I²t (I²t was measured at listed interrupting rating and rated voltage)

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

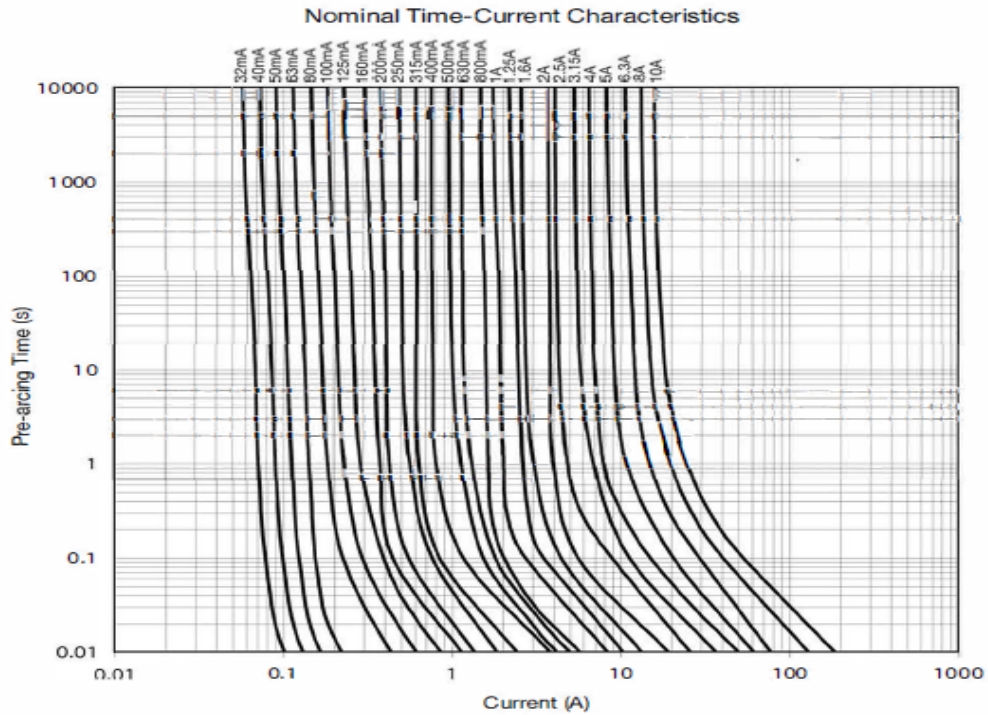


Powering Business Worldwide

Dimensions - mm
Drawing Not to Scale



Time-Current Curve



| 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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