

5 x 20mm Fuses

GDA Series, Fast-Acting, Ceramic Tube

Description

- Fast-acting, high breaking capacity
- 5 x 20mm physical size
- Ceramic tube, nickel-plated brass endcap construction
- Silver-plated endcap construction (50mA-400mA)
- Optional axial leads are 0.032" x 1.5" copper tinned
- Designed to IEC 60127-2

| Electrical Characteristics | | | | | | | | |
|----------------------------|--------------------|--------|--------------------|-------|---------------------|--------|------------------|-----|
| I _n | 1.5 I _n | | 2.1 I _n | | 2.75 I _n | | 4 I _n | |
| | min | max | min | max | min | max | min | max |
| 50mA-3.15A | 60 min | 30 min | 10 ms | 2 sec | 3 ms | 300 ms | 20 ms | |
| 4A-10A | 60 min | 30 min | 10 ms | 3 sec | 3 ms | 300 ms | 20 ms | |

Agency Information

- UL Recognized Card: Guide JDYX2, File E19180
- CSA Component Acceptance: File 53787
- Semko Approval: File 413779, File 512433
- IMQ Approval: File EB405
- CCC: File 2005010207155691

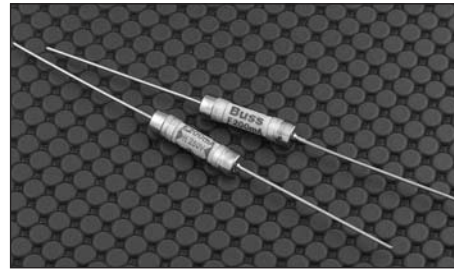
Ordering

Specify product code

- Insert packaging code prefix before part number. E.g. BK/GDA-250mA

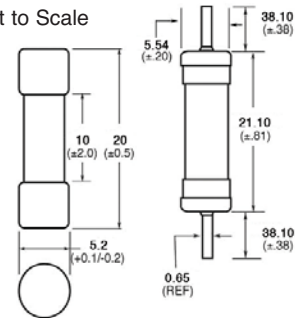
Specify option code if desired

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



Dimensions - mm

Drawing Not to Scale



- With TR2 packaging code, lead wire length is 19.05mm

| Part Number | Voltage Rating Vac | Interrupting Rating (amps) at Rated Voltage (50Hz) Vac | Typical DC Cold Resistance (Ω)* | Typical Melting I ^t (amps) | Typical Voltage Drop (mV)‡ | Agency Approvals | | | | |
|-------------|--------------------|--|---------------------------------|---------------------------------------|----------------------------|------------------|-------|----|-----|-----|
| | | | | | | IMQ | SEMKO | UR | CCC | CSA |
| | | | | | | | | | | |
| GDA-50mA | 250 | 1500 | 157.5 | 0.0017 | 9000 | X | X | X | X | X |
| GDA-63mA | 250 | 1500 | 39.0 | 0.0005 | 3300 | | X | X | X | |
| GDA-80mA | 250 | 1500 | 27.9 | 0.0011 | 2600 | | | X | | X |
| GDA-100mA | 250 | 1500 | 20.0 | 0.0018 | 2300 | | | X | | X |
| GDA-125mA | 250 | 1500 | 12.3 | 0.0037 | 1900 | | | X | | X |
| GDA-160mA | 250 | 1500 | 8.5 | 0.008 | 1600 | X | X | X | X | X |
| GDA-200mA | 250 | 1500 | 6.0 | 0.020 | 1350 | X | X | X | X | X |
| GDA-250mA | 250 | 1500 | 4.4 | 0.027 | 1300 | X | X | X | X | X |
| GDA-315mA | 250 | 1500 | 3.3 | 0.010 | 1400 | X | X | X | X | X |
| GDA-400mA | 250 | 1500 | 2.2 | 0.018 | 1200 | | | X | | X |
| GDA-500mA | 250 | 1500 | 0.460 | 0.038 | 1050 | X | X | X | X | X |
| GDA-630mA | 250 | 1500 | 0.340 | 0.064 | 1200 | | | X | | X |
| GDA-800mA | 250 | 1500 | 0.245 | 0.097 | 490 | X | X | X | X | X |
| GDA-1A | 250 | 1500 | 0.231 | 0.146* | 330 | | X | X | X | |
| GDA-1.25A | 250 | 1500 | 0.176 | 0.313* | 297 | | X | X | X | |
| GDA-1.6A | 250 | 1500 | 0.113 | 0.748* | 239 | | X | X | X | |
| GDA-2A | 250 | 1500 | 0.073 | 2.0 | 205 | X | X | X | X | X** |
| GDA-2.5A | 250 | 1500 | 0.053 | 3.9 | 190 | X | X | X | X | X** |
| GDA-3.15A | 250 | 1500 | 0.037 | 8.1 | 160 | X | X | X | X | X** |
| GDA-4A | 250 | 1500 | 0.027 | 14 | 160 | X | X | X | X | X** |
| GDA-5A | 250 | 1500 | 0.019 | 25 | 155 | X | X | X | X | X** |
| GDA-6.3A | 250 | 1500 | 0.014 | 48 | 150 | X | X | X | X | X |

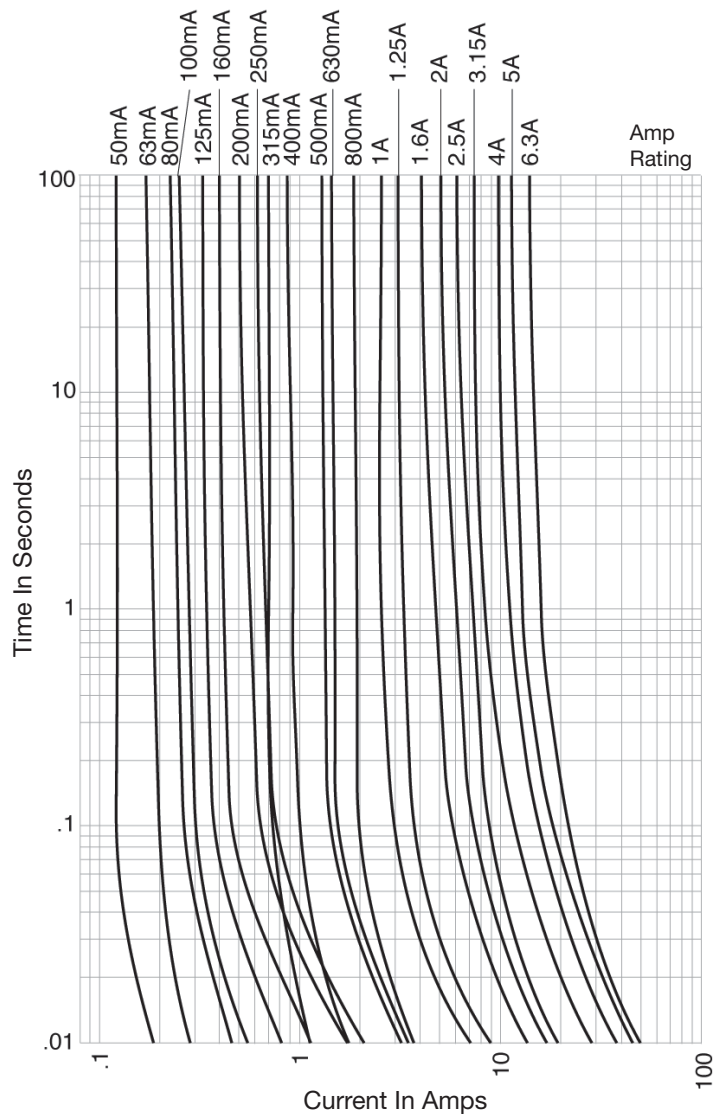
‡ Typical Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current)

*I^t of 1A, 1.25A, 1.6A is measured at 10I_n DC.

**CSA Approvals on these ratings will not be marked on the fuse cap.

Time-Current Curve

Time-Current Characteristic Curves—Average Melt



Option Code

| Option Code | Description |
|-------------|---|
| V | Axial leads - copper tinned wire with nickel-plated brass endcaps |

Packaging Code

| Packaging Code | 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) |

The only controlled copy of this Data Sheet is the electronic read-only version located on the Cooper Bussmann Network Drive. All other copies of this document are by definition uncontrolled. This bulletin is intended to clearly present comprehensive product data and provide technical information that will help the end user with design applications. Cooper Bussmann reserves the right, without notice, to change design or construction of any products and to discontinue or limit distribution of any products. Cooper Bussmann also reserves the right to change or update, without notice, any technical information contained in this bulletin. Once a product has been selected, it should be tested by the user in all possible applications.

Life Support Policy: Cooper Bussmann does not authorize the use of any of its products for use in life support devices or systems without the express written approval of an officer of the Company. Life support systems are devices which support or sustain life, and whose failure to perform, when properly used in accordance with instructions for use provided in the labeling, can be reasonably expected to result in significant injury to the user.

© 2009 Cooper Bussmann
St. Louis, MO 63178
www.cooperbussmann.com

