COOPER Bussmann

# 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 | | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1.5 $I_n$ | 2.1 $I_n$ | 2.75 $I_n$ | | 4 $I_n$ | | 10 $I_n$ |
| $I_n$ | min | max | min | max | min | max | 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

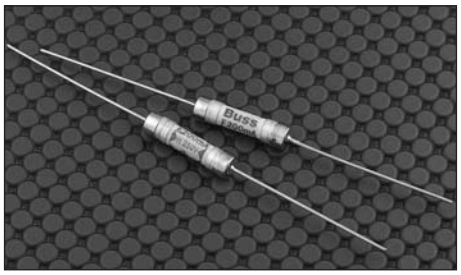
### Ordering

Specify product code

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

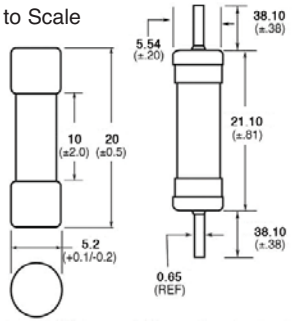
Specify option code if desired

- 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

| Specifications | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Agency Approvals | | | | |
| Part Number | Voltage Rating Vac | Interrupting Rating (amps) at Rated Voltage (50Hz) Vac | Typical DC Cold Resistance (Ω)* | Typical Melting $I^2t$ (amps) | Typical Voltage Drop (mV)‡ | 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 |

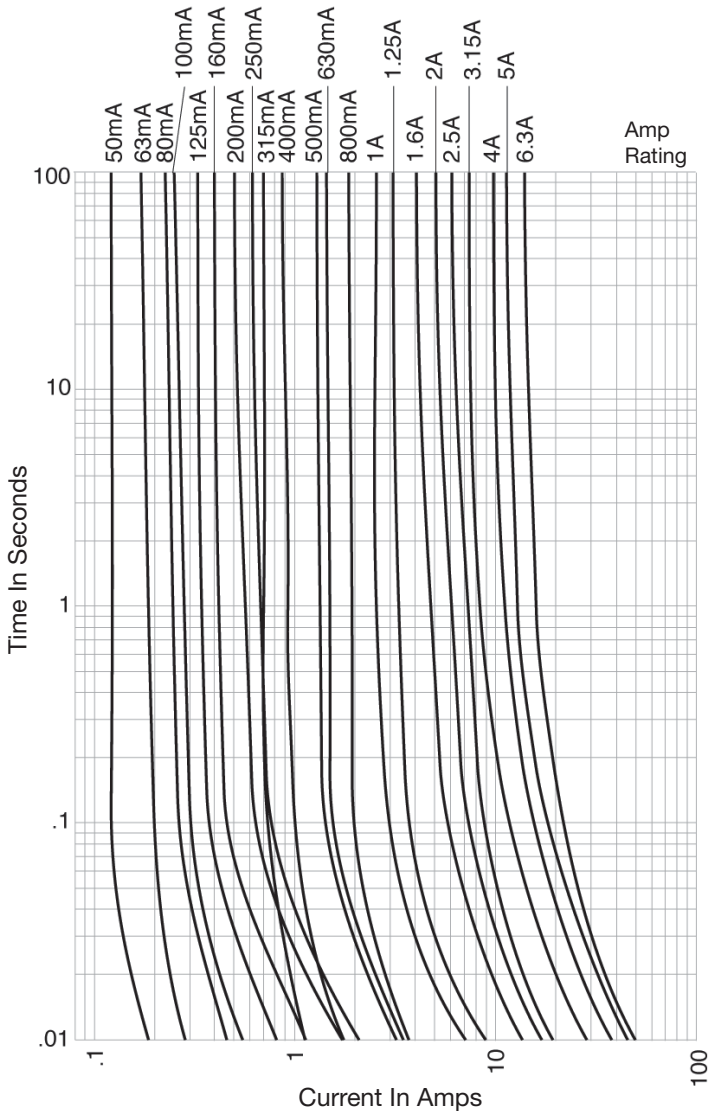
‡ Typical Voltage Drop (Voltage drop was measured at 20ºC ambient temperature at rated current)

*$I^2t$ of 1A, 1.25A, 1.6A is measured at 10$I_n$ 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) |