

## 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 $I_n$<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 |
| 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

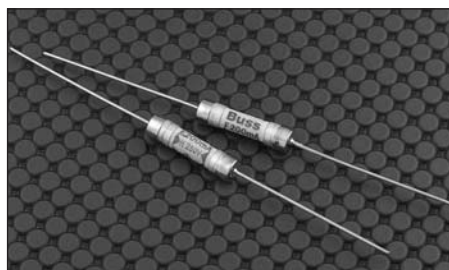
#### Ordering

Specify product code

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

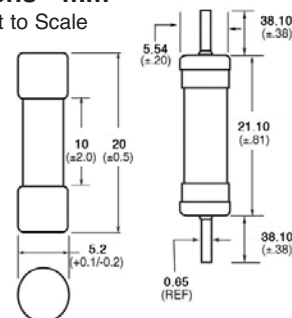
Specify option code if desired

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

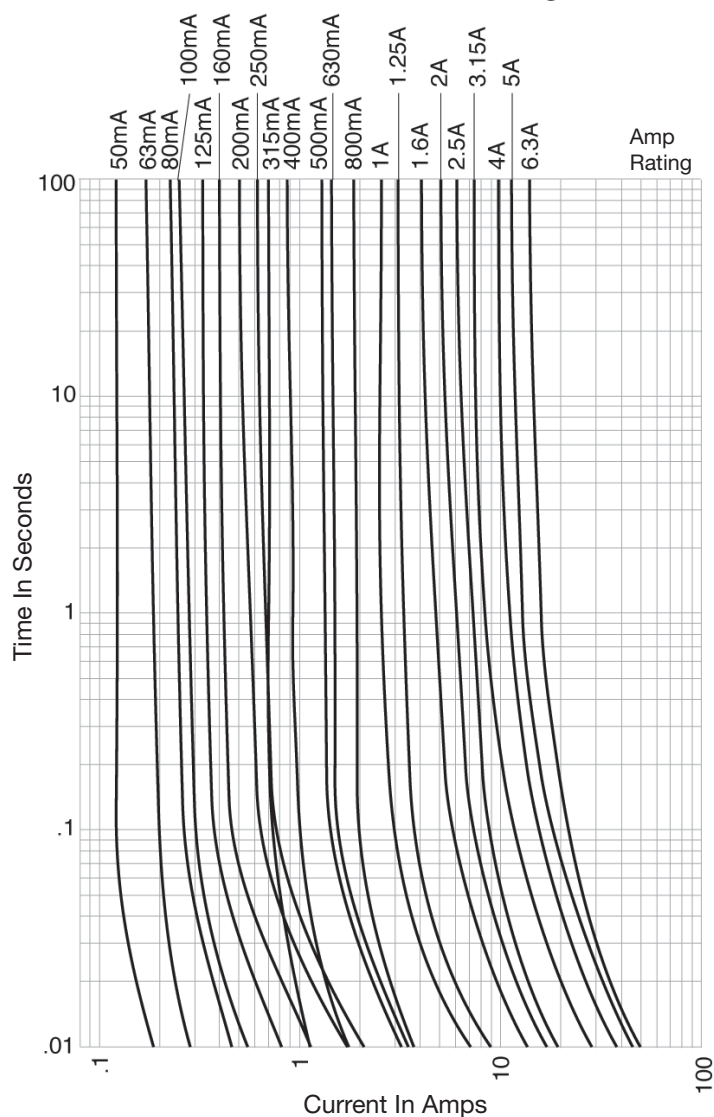
‡ Typical Voltage Drop (Voltage drop was measured at 20°C ambient temperature at rated current)

\* $I^2t$  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) |

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