

- 15A Continuous current capacity
- 20A 450VDC Fault condition breaking capacity
- Miniature case size
- PCB mounting
- Magnet arc blowout
- Automotive oriented design

ROHS
Compliant ✓

Contacts

| | | | |
|----------------------------|------------------------|--------------------------------------|------------|
| Contact arrangement | SPST-NO-DM, SPST-NC-DM | | |
| Contact material | AgSnO ₂ | | |
| Rated current | DC1 | 15A / 450VDC (10A max.Break) | |
| Max. switching voltage | 450VDC | | |
| Max. breaking capacity | 4500W | | |
| Initial contact resistance | 10mΩ at 20A | | |
| Min. switched load | 0.5A / 5VDC | | |
| | | SPST-NO-DM | SPST-NC-DB |
| Max. continuous current | DC1 | 15A | 10A |
| Max. switching current | make | 15A | 12A |
| | break | 15A | 10A |
| | fault condition | 20A ON/ 20A OFF 10 operations (min.) | |
| Max. operating frequency | rated load | 360 cycles/hour | |

Coil

| | | |
|-------------------------|------|---------------------|
| Operating range | DC | 6 ~ 24V See Table 1 |
| Rated power consumption | 1.6W | |

Insulation

| | | | |
|------------------------|--------------------------|----------------|--|
| Coil insulation system | IEC 31, CLASS F 155°C | | |
| Insulation resistance | >100 MΩ at 500VDC, 50%RH | | |
| Dielectric strength | coil to contact | 1300Vrms, 1min | |
| | open contacts | 1500Vrms, 1min | |

General Data

| | | |
|------------------------------------|--------|--|
| Electrical life at full rated load | cycles | 2 x 10 ⁵ 10A 450VDC (10A ON / 0A OFF) |
| Mechanical life | cycles | >1 x 10 ⁷ |

Environmental

| | | |
|--------------------------|-------------|---|
| Environmental protection | | IP67 |
| Ambient temperature | operating | -40 to +85°C |
| | storage | -40 to +125°C |
| Mechanical shock | functional | 10g, 11ms |
| | destructive | ≤ 100g |
| Vibration resistance | | NO: 20g / NC: 10g 18-200Hz |
| Dimensions | L x W x H | 26.2 x 17.7 x 19.7mm (excluding pcb pins) |
| Weight | approx. | 14g |

Ordering Code

D G 1 7 M - 5 0 2 1 - 3 5 - 1 0 1 2

Series

Coil code:

See table 1

Contact material

50: AgSnO₂

Contact arrangement

21: SPST-NO-DM

31: SPST-NC-DB

Mounting & terminations

35: PCB Mounting, sealed IP67

DC Coil Data

Table 1

| Coil code | Nominal voltage (VDC) | Must operate voltage max. (VDC@ 23°C) | Max. allowable voltage (VDC) | Must release voltage min. (VDC) | Coil resistance $\Omega \pm 10\%$ (at 30°C) | Coil current (mA) |
|-----------|-----------------------|---------------------------------------|------------------------------|---------------------------------|---|-------------------|
| 1006 | 6.00 | 4.20 | 6.60 | 0.40 | 22.50 | 266.00 |
| 1012 | 12.00 | 8.40 | 14.70 | 0.80 | 90.00 | 133.00 |
| 1024 | 24.00 | 16.80 | 26.40 | 1.60 | 360.00 | 66.00 |

* At ambient temperature of 85°C, maximum allowable voltage should be reduced to 72%

Operate time typ. 3ms

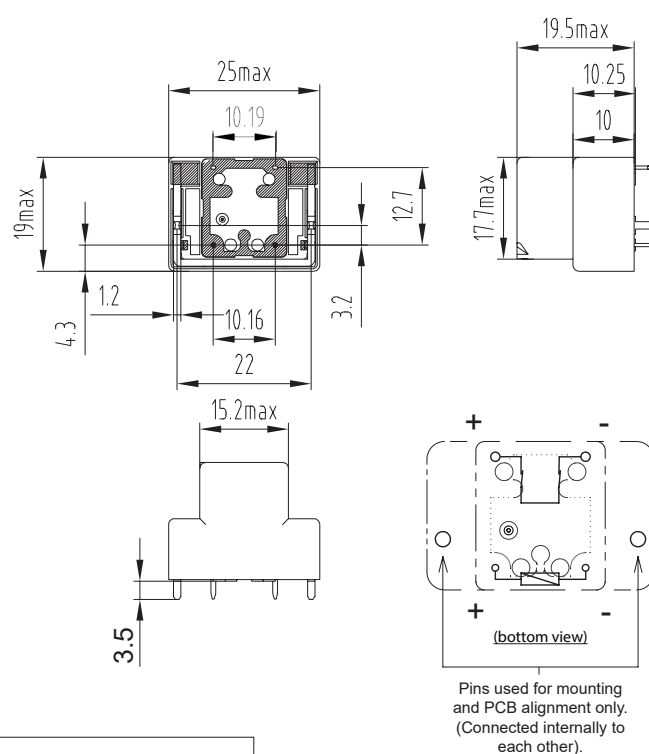
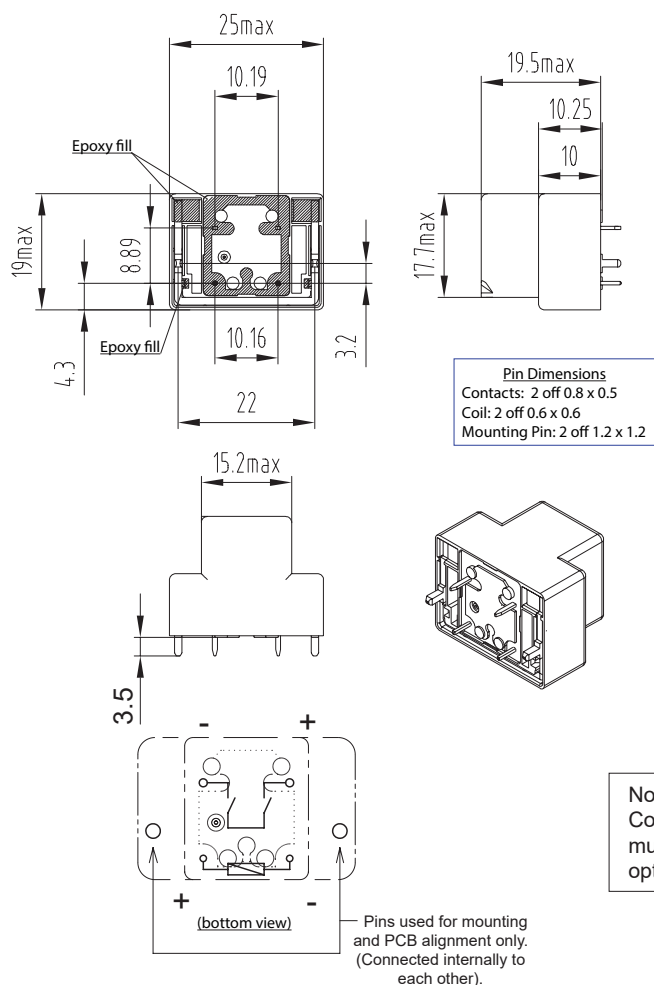
Release time typ. 1.5ms

Dimensions

Fig 1

DG17M-5021-35-10** (SPST-NO-DM)

DG17M-5031-35-10** (SPST-NC-DB)



Dimensions in mm