

## Product Feature

- High Power Mercury Reed Relay
- High Carry Current
- Low Contact Resistance
- Excellent Lifetime Characteristics

## High Current Mercury Reed Relay



## Specifications

| ■ Coil Specifications                 | Units | Conditions                                                      | HGSR-2A04 Series |      |      |
|---------------------------------------|-------|-----------------------------------------------------------------|------------------|------|------|
| Nominal Coil Voltage                  | VDC   |                                                                 | 05               | 12   | 24   |
| Max Operating Voltage                 | VDC   |                                                                 | 6.5              | 16.0 | 29.0 |
| Max Pull-in Voltage                   | VDC   | @20°C                                                           | 4.0              | 9.0  | 18.0 |
| Min Drop-out Voltage                  | VDC   | @20°C                                                           | 0.5              | 1.0  | 2.0  |
| Coil Resistance                       | ohms  | ±10%@20°C                                                       | 60               | 200  | 1200 |
| ■ Contact Ratings                     |       |                                                                 |                  |      |      |
| Max Contact Rating                    | W     | Any DC combination of V&A not to exceed their individual max.'s | 100              |      |      |
| Max Switch Voltage                    | V     | DC or AC peak                                                   | 500              |      |      |
| Max Switch Current                    | A     | DC or AC peak                                                   | 2.0              |      |      |
| Max Carry Current                     | A     | DC or AC peak                                                   | 5.0              |      |      |
| Min Breakdown Voltage                 | V     | DC or AC peak                                                   | 4000             |      |      |
| Contact Resistance                    | mohm  | Max.                                                            | 80               |      |      |
| ■ Relay Specifications                |       |                                                                 |                  |      |      |
| Breakdown Voltage                     | V     | DC or AC peak                                                   | 4000             |      |      |
| Isolation Contact to Coil             | V     | DC or AC peak                                                   | 4000             |      |      |
| Insulation Resistance Contact to Coil | ohms  | Minimum, RH<45%,                                                | 10 <sup>9</sup>  |      |      |
| Operate Time, incl. Bounce            | ms    | Max.                                                            | 2.0              |      |      |
| Reset Time                            | ms    | Max.                                                            | 2.0              |      |      |
| Cpaccitance Across Contact            | pF    | Max.                                                            | 1.5              |      |      |
| Storge Temprature                     | pF    | Max.                                                            | -20 to +105      |      |      |
| Operating Temprature                  | °C    |                                                                 | -20 to +85       |      |      |
| Soldering Temprature                  | °C    |                                                                 | 260              |      |      |

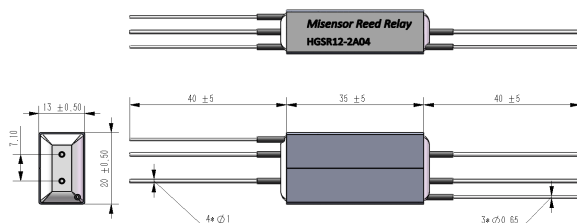
## Order Information

| HGSR12—2A04             |                |                    |                          |
|-------------------------|----------------|--------------------|--------------------------|
| Product Name            | Normal Voltage | Breakdown Voltages | Contact Form             |
| (05=5V, 12=12V, 24=24V) |                | (04=4.0kV)         | (1A=Form 1A; 2A=Form 2A) |

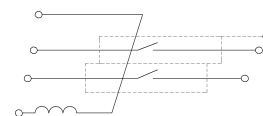
## Mechanical Dimensions

All Dimensions in mm

### HGSR-2A04 Series



### Top View



**Mailbox:** Sales@misensor.com