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### 捷多邦,专业PCB打样工厂,24小时加急出货

## 2300 Series/Microminiature Reed Relays

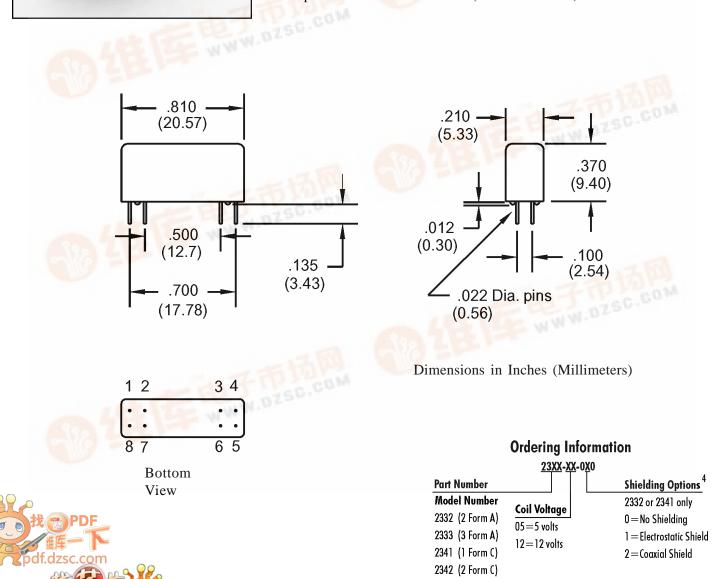


#### MULTIPOLE MICROMINIATURE REED RELAYS

The Coto 2300 series was designed to offer the densest packaging available in a multipole reed relay. The size and footprint of the 2300 series compliment the 2200 and 2900 series microminiature relays. The 1 Form C model is constructed with individual switch capsules for the normally open and magnetically biased normally closed contacts which are more reliable than the spring actuated 1 Form C reed switches. Custom pin-outs as well as custom designs are available to meet particular applications. Special designs include 1 Form B, 2 Form B, latching, and high voltage relays.

#### **2300 Series Feature**

- Smallest Multipole Relay: 0.056 sq. inches/pole (3 pole relay) WWW.0ZSC.COM
- Up to 3 Form A or 2 Form C Contacts
- Hermetically Sealed Contacts
- Long Life / High Reliability
- Magnetically Shielding Steel Shell
- Optional Electrostatic Shield (on most models)



# 2300 Series/Microminiature Reed Relays

| Model Number<br>Parameters                 | Test Conditions                                    | Units                  | 2332<br>2 Form A | 2333<br>3 Form A | 2341 <sup>3,5</sup><br>1 Form C | 2342<br>2 Form C |
|--|--|------------------------|------------------|------------------|---------------------------------|------------------|
| COIL SPECS.                                |  |                        |                  |                  |                                 |                  |
| Nom. Coil Voltage                          |  | VDC                    | 5 12             | 5 12             | 5 12                            | 5 12             |
| Coil Resistance                            | +/- 10%, 25° C                                     | Ω                      | 175 1000         | 175 1000         | 230 1000                        | 175 1000         |
| Operate Voltage                            | Must Operate by                                    | VDC - Max.             | 3.8 9.0          | 3.8 9.0          | 3.8 9.0                         | 3.8 9.0          |
| Release Voltage                            | Must Release by                                    | VDC - Min.             | 0.4 1.0          | 0.4 1.0          | 0.4 1.0                         | 0.4 1.0          |
| CONTACT RATINGS                            |  | 1                      |                  |                  |                                 |                  |
| Switching Voltage                          | Max DC/Peak AC Resist.                             | Volts                  | 200              | 200              | 200                             | 100              |
| Switching Current                          | Max DC/Peak AC Resist.                             | Amps                   | 0.5              | 0.5              | 0.5                             | 0.25             |
| Carry Current                              | Max DC/Peak AC Resist.                             | Amps                   | 1.5              | 1.5              | 1.5                             | 0.5              |
| Contact Rating                             | Max DC/Peak AC Resist.                             | Watts                  | 10               | 10               | 10                              | 3                |
| Life Expectancy-Typical <sup>1</sup>       | Signal Level 1.0V, 10mA                            | x 10 <sup>6</sup> Ops. | 500              | 500              | 500                             | 100              |
| Static Contact<br>Resistance (max. init.)  | 50mV, 10mA   | Ω                      | 0.150            | 0.150            | 0.150                           | 0.200            |
| Dynamic Contact<br>Resistance (max. init.) | 0.5V, 50mA<br>at 100 Hz, 1.5 msec                  | Ω                      | 0.200            | 0.200            | 0.200                           | 0.250            |
| RELAY<br>SPECIFICATIONS                    | Determent II Jacksted Ding                         |                        |                  |                  |                                 |                  |
| Insulation Resistance<br>(minimum)         | Between all Isolated Pins<br>at 100V, 25°C, 40% RH | Ω                      | 10 <sup>12</sup> | 10 <sup>12</sup> | 10 <sup>12</sup>                | 10 <sup>9</sup>  |
| Capacitance - Typical                      | No Shield  | pF                     | 0.8              | 0.8              | 1.7                             | 2.0              |
| Across Open Contacts                       | Shield Guarded                                     | pF                     | 0.2              | N/A              | 0.7                             | N/A              |
| Dielectric Strength                        | Between Contacts                                   | VDC/peak AC            | 250              | 250              | 250                             | 200              |
| (minimum)                                  | Contacts to Shield                                 | VDC/peak AC            | 1000             | N/A              | 1000                            | N/A              |
|  | Contacts/Shield to Coil                            | VDC/peak AC            | 1000             | 1000             | 1000                            | 1000             |
| Operate Time - including bounce - Typical  | At Nominal Coil Voltage,<br>30 Hz Square Wave      | msec.                  | 0.5              | 0.5              | 0.5                             | 1.5              |
| Release Time - Typical                     | Zener-Diode Suppression <sup>2</sup>               | msec.                  | 0.15             | 0.15             | 0.5                             | 2.0              |
| Dot stamped of                             |  |                        |                  |                  |                                 |                  |

ot stamped on top of relay refers to pin #1 location Grid=.1"x.1" (2.54mm x 2.54mm)

#### Notes:

- <sup>1</sup> Consult factory for life expectancy at other switching loads.
- <sup>2</sup> Release time is specified with a zener diode suppression circuit consisting of a 20 V zener diode in series with a 1N4148, connected in parallel with the coil.
- <sup>3</sup> Break-before-make action on Form C Model 2341 is not guaranteed. Consult factory if break-before-make is required.
- <sup>4</sup> Electrostatic shield is connected to pin #6. Coaxial shield is connected to pins #6 and #7.
- <sup>5</sup> This relav is polarity sensitive. Pin #3 MUST be positive.



#### **Environmental Ratings**

Storage Temp:  $-35 \degree C$  to  $+100 \degree C$ ; Operating Temp:  $-20 \degree C$  to  $+85 \degree C$ 

Solder Temp: 270°C max; 10 sec. max

The operate and release voltage and the coil resistance are specified at 25°C. These values vary by approximately 0.4% / °C as the ambient temperature varies. Vibration: 20 G's to 2000 Hz; Shock: 50 G's