

mm inch

FEATURES

- 2 Form C contact
- High sensitivity-200 mW nominal operating power
- High breakdown voltage
1500 V FCC surge between open contacts
- DIP-2C type matching 16 pin IC socket
- Sealed construction

SPECIFICATIONS

Contact

| | | | |
|--|------------------------|--------------------|-------------------|
| Arrangement | 2 Form C | | |
| Initial contact resistance, max. (By voltage drop 6 V DC 1 A) | 50 mΩ | | |
| Contact material | Gold-clad sliver | | |
| Rating (resistive) | Max. switching power | 60 W, 62.5 VA | |
| | Max. switching voltage | 220 V DC, 250 V AC | |
| | Max. switching current | 2 A | |
| | Max. carrying current | 3 A | |
| Expected life (min. operations) | Mechanical | 1×10 ⁸ | |
| | Electrical | 1 A 30 V DC | 5×10 ⁵ |
| | | 2 A 30 V DC | 1×10 ⁵ |

Coil (polarized) (at 20°C 68°F)

| | | |
|--------------------|-----------------------------|----------------------------------|
| Single side stable | Minimum operating power | Approx. 98 mW (147 mW: 48 V) |
| | Nominal operating power | Approx. 200 mW (300 mW: 48 V) |
| 2 coil latching | Minimum set and reset power | Approx. 88 mW (177 mW: 48 V) |
| | Nominal set and reset power | Approx. 180 mW (360 mW: 48 V) |

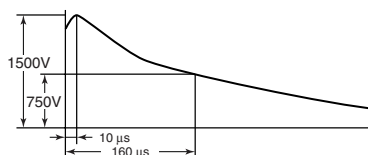
Remarks

- * Specifications will vary with foreign standards certification ratings.
- *¹ Measurement at same location as "Initial breakdown voltage" section
- *² Detection current: 10mA
- *³ Excluding contact bounce time
- *⁴ Half-wave pulse of sine wave: 11ms, detection time: 10μs
- *⁵ Half-wave pulse of sine wave: 6ms
- *⁶ Detection time: 10μs
- *⁷ Refer to 6. Conditions for operation, transport and storage mentioned in AMBIENT ENVIRONMENT

Characteristics (at 20°C 68°F)

| | | |
|---|---------------------------|--|
| Initial insulation resistance* ¹ | | Min. 100 MΩ (at 500 V DC) |
| Initial breakdown voltage* ² | Between open contacts | 750 Vrms |
| | Between contact sets | 1,000 Vrms |
| | Between contact and coil | 1,000 Vrms |
| FCC surge voltage between contacts and coil | | 1,500 V |
| Operate time* ³ (at nominal voltage) | | Approx. 4 ms |
| Release time* ³ (at nominal voltage) | | Approx. 3 ms |
| Set time* ³ (latching) (at nominal voltage) | | Approx. 3 ms |
| Reset time* ³ (latching) (at nominal voltage) | | Approx. 3 ms |
| Temperature rise | | Max. 65°C with nominal voltage across coil and at nominal switching capacity |
| Shock resistance | Functional* ⁴ | Min. 490 m/s ² {50 G} |
| | Destructive* ⁵ | Min. 980 m/s ² {100 G} |
| Vibration resistance | Functional* ⁶ | 10 to 55 Hz at double amplitude of 3.3 mm |
| | Destructive | 10 to 55 Hz at double amplitude of 5 mm |
| Conditions for operation, transport and storage* ⁷ (Not freezing and condensing at low temperature) | Ambient temp. | -40°C to +70°C -40°F to +158°F |
| | Humidity | 5 to 85% R.H. |
| Unit weight | | Approx. 4 g .14 oz |

FCC (Federal Communication Commission) requests following standard as Breakdown Voltage specification.



TYPICAL APPLICATIONS

- Telecommunication equipment
- Office equipment
- Computer peripherals
- Security alarm systems
- Medical equipment

ORDERING INFORMATION

Ex DS2Y-S L2 — DC12 V — R

| Operating function | Coil voltage | Polarity |
|--|-------------------------------------|---|
| Nil: Single side stable L2: 2 coil latching | DC 1.5, 3, 5, 6, 9, 12, 24, 48 V | Nil: Standard polarity R: Reverse polarity |

- (Notes) 1. Standard packing: Carton: 50 pcs. Case: 500 pcs.
2. 1 coil latching type available.

