

# REED SWITCH

## ORD325

General purpose miniature-type

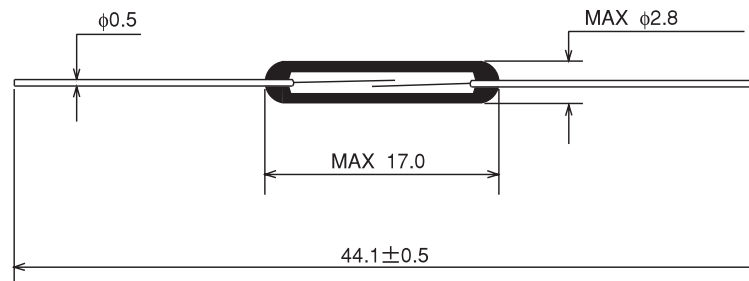
### ■ GENERAL DESCRIPTION

The ORD325 is a small single-contact reed switch designed for general control of medium-level loads less than 200V. The contacts are sealed within the glass tube with inert gas to maintain contact reliability.

### ■ FEATURES

- (1) Hermetically sealed within a glass tube with inert gas, reed contacts are not influenced by the external atmospheric environment.
- (2) Quick response
- (3) Comprising of operating parts and electrical parts arranged coaxially, reed switches are suited to high-frequency applications.
- (4) Compact and light weight.
- (5) Superior corrosion resistance and wear resistance of the contacts assures stable switching operation and long life.
- (6) Economically and easily becomes a proximity switch when paired with a magnet.

### ■ EXTERNAL DIMENSIONS (Unit: mm)



### ■ APPLICATIONS

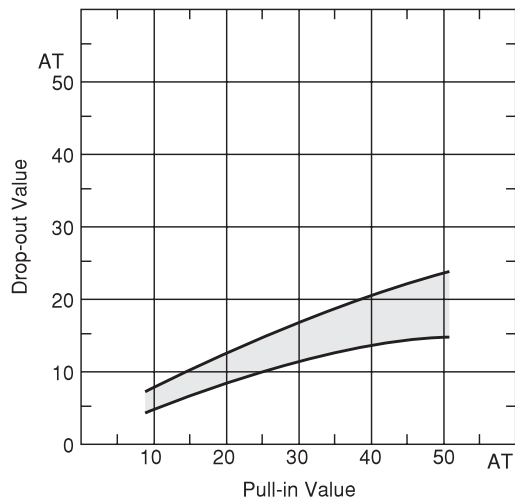
- Control equipment
- Communication equipment
- Measurement equipment
- Household appliances

## ■ ELECTRICAL CHARACTERISTICS

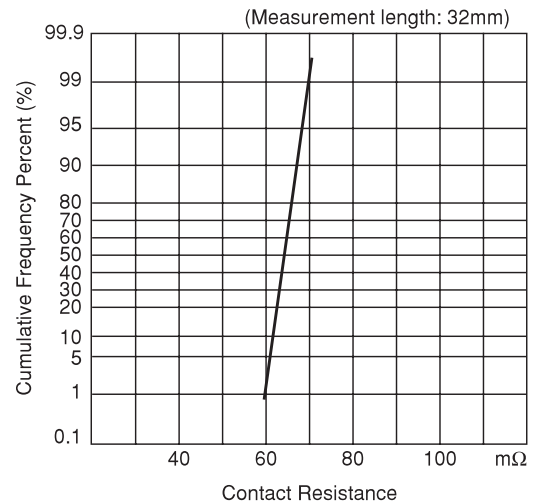
| Parameter                 | Rated Value           | Unit |
|---------------------------|-----------------------|------|
| Pull-in Value (PI)        | 10~50                 | AT   |
| Drop-out Value (DO)       | 4min                  | AT   |
| Contact Resistance (CR)   | 100max                | mΩ   |
| Breakdown Voltage         | 300min (PI $\geq$ 15) | VDC  |
|                           | 250min (PI<15)        | VDC  |
| Insulation Resistance     | 10 <sup>10</sup> min  | Ω    |
| Electrostatic Capacitance | 0.3max                | pF   |
| Contact Rating            | 10                    | VA   |
| Maximum Switching Voltage | 200DC                 | V    |
|                           | 150AC                 | V    |
| Maximum Switching Current | 0.5                   | A    |
| Maximum Carry Current     | 1.0                   | A    |

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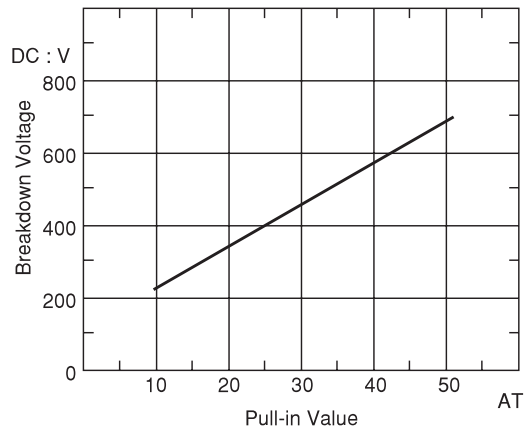
(1) Pull-in Value vs. Drop-out Value



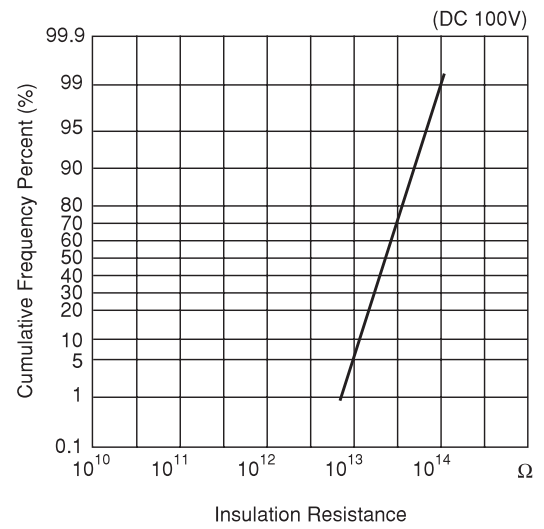
(2) Contact Resistance



## (3) Breakdown Voltage

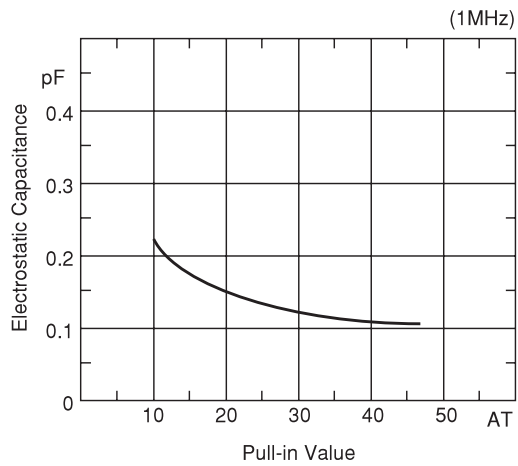


## (4) Insulation Resistance



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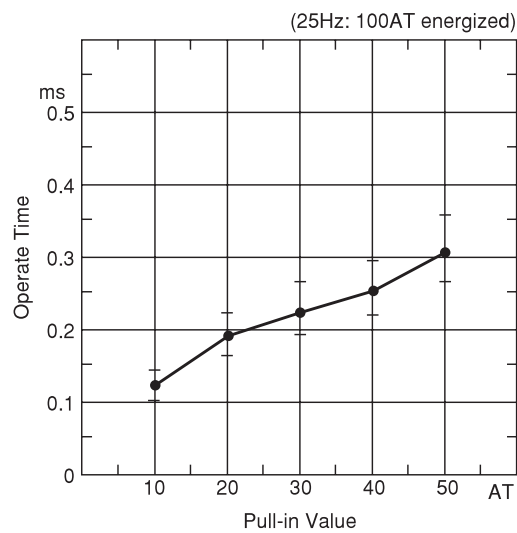
## (5) Electrostatic Capacitance



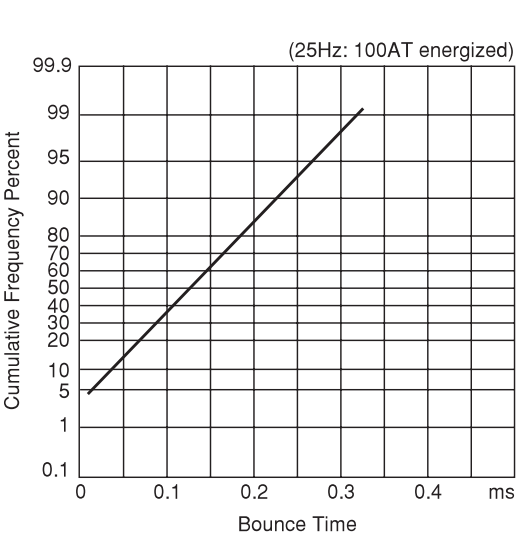
■ OPERATING CHARACTERISTICS

| Parameter                   | Rated Value | Unit |
|-----------------------------|-------------|------|
| Operate Time                | 0.4max      | ms   |
| Bounce Time                 | 0.4max      | ms   |
| Release Time                | 0.05max     | ms   |
| Resonant Frequency          | 3700±300    | Hz   |
| Maximum Operating Frequency | 500         | Hz   |

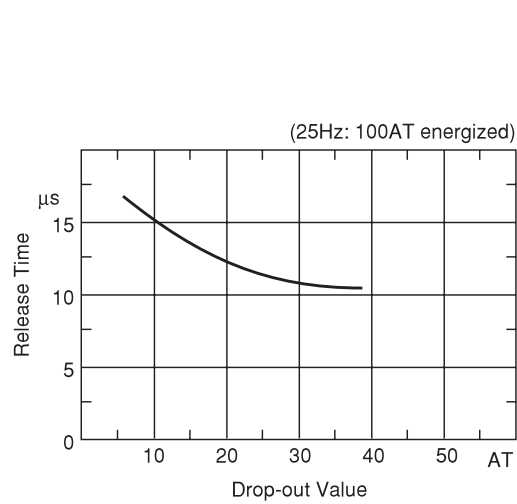
(1) Operate Time



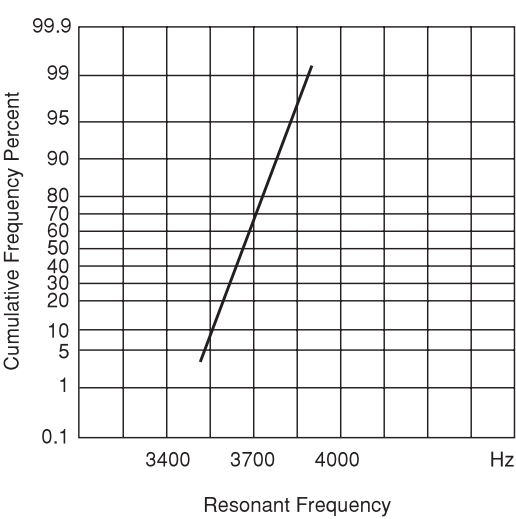
(2) Bounce Time



(3) Release Time

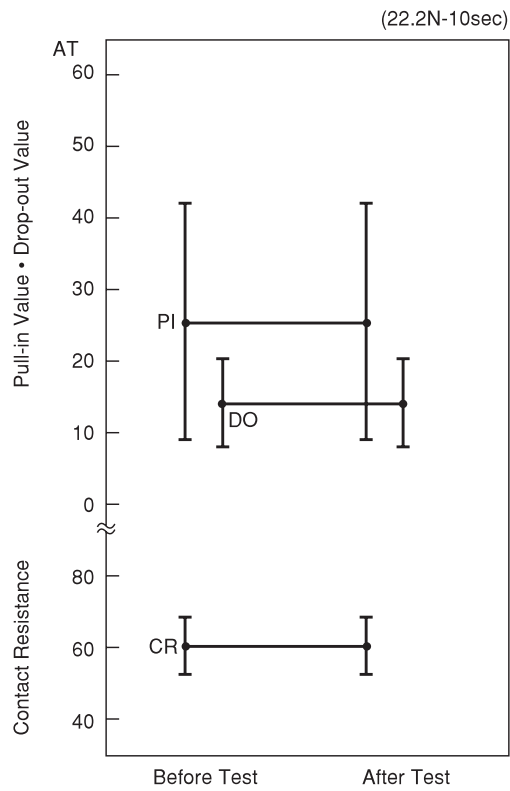


(4) Resonant Frequency

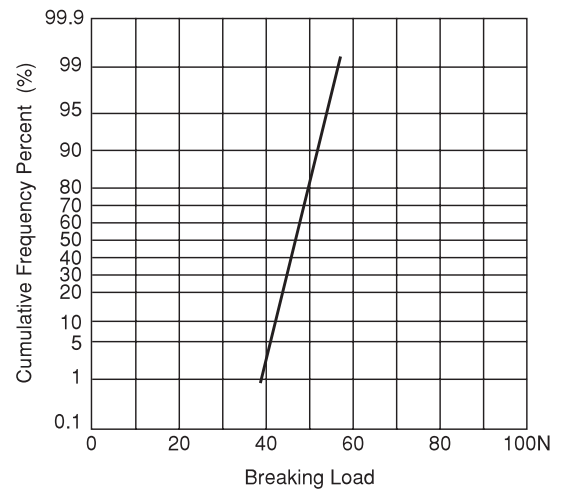


## MECHANICAL CHARACTERISTICS

### (1) Lead Tensile Test (Static Load)



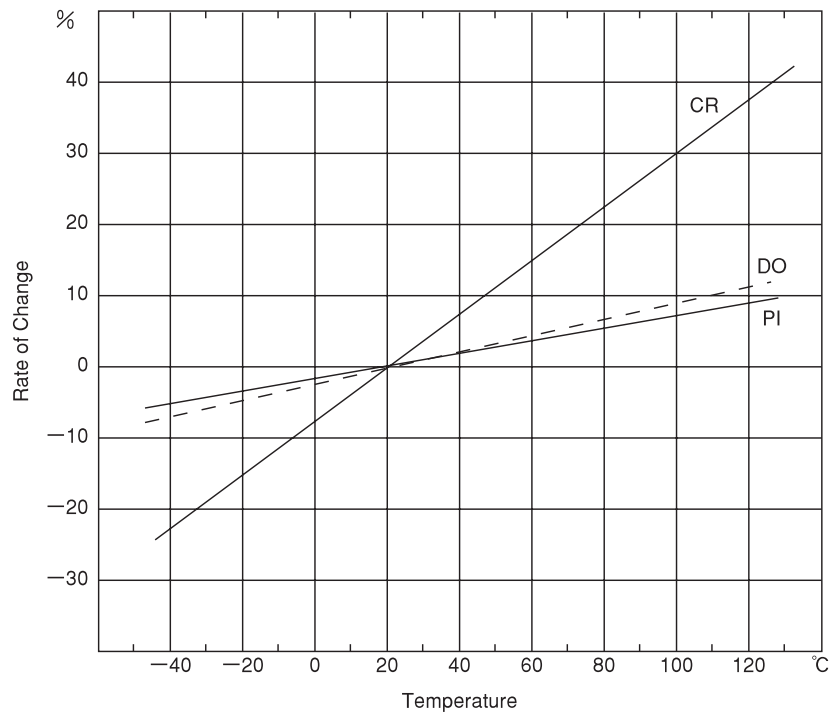
### (2) Lead Tensile Strength



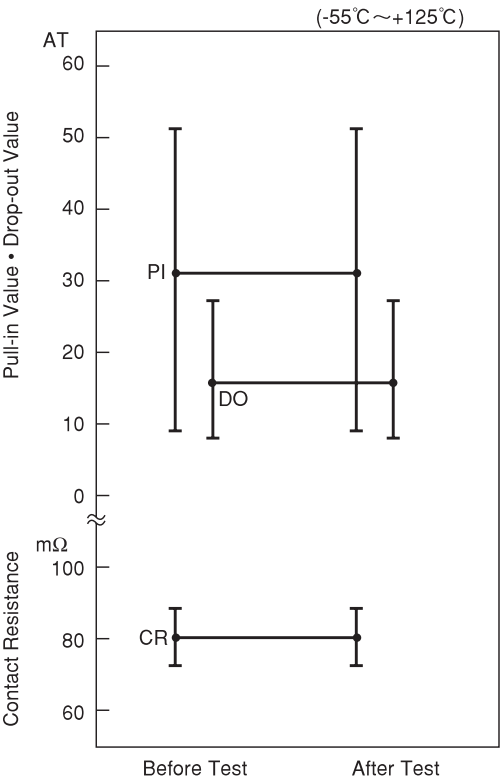
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## ENVIRONMENTAL CHARACTERISTICS

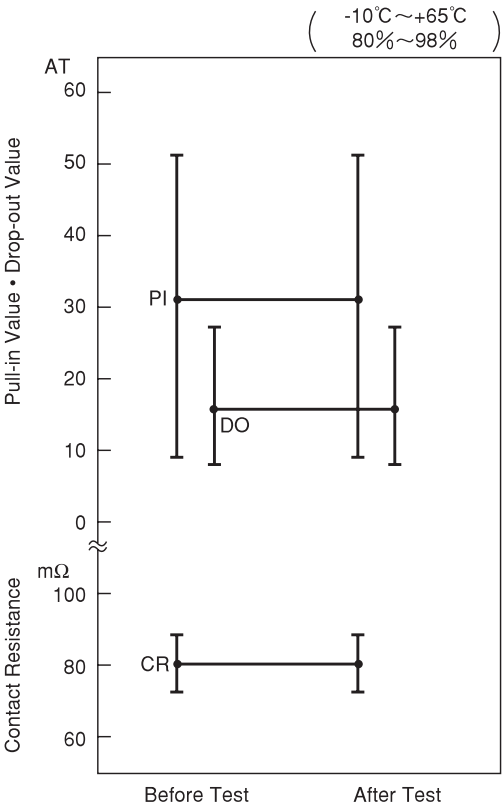
### (1) Temperature Characteristics



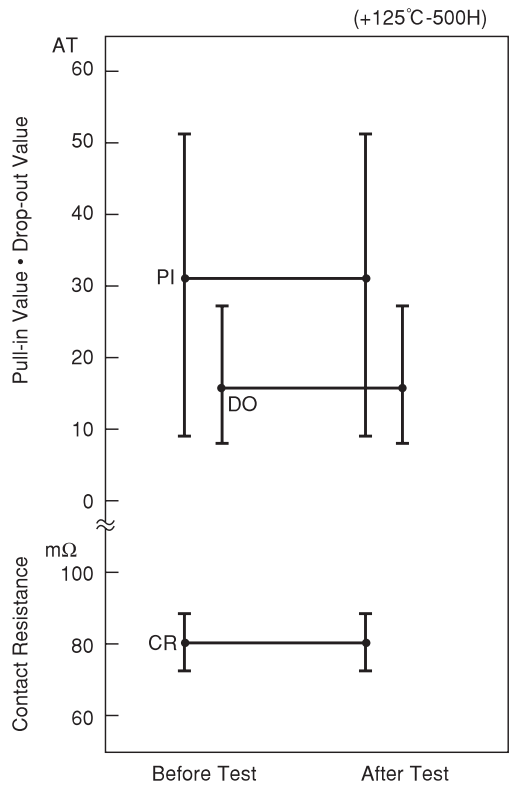
(2) Temperature Cycle



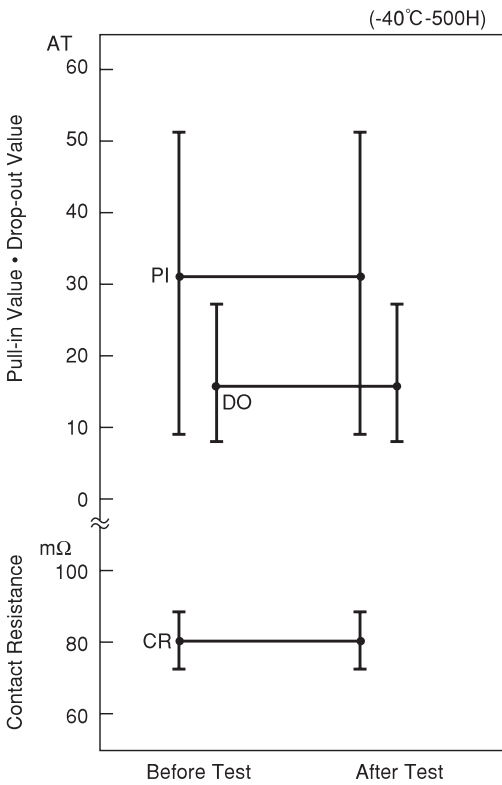
(3) Temperature and Humidity Cycle



(4) High Temperature Storage Test

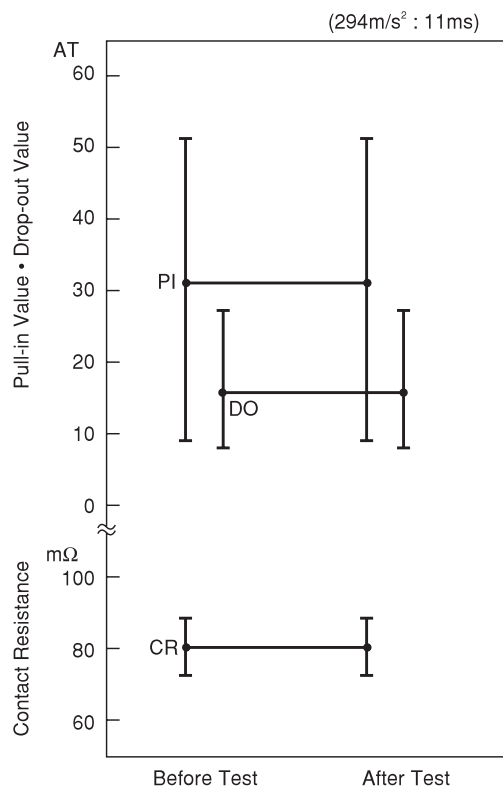


(5) Low Temperature Storage Test

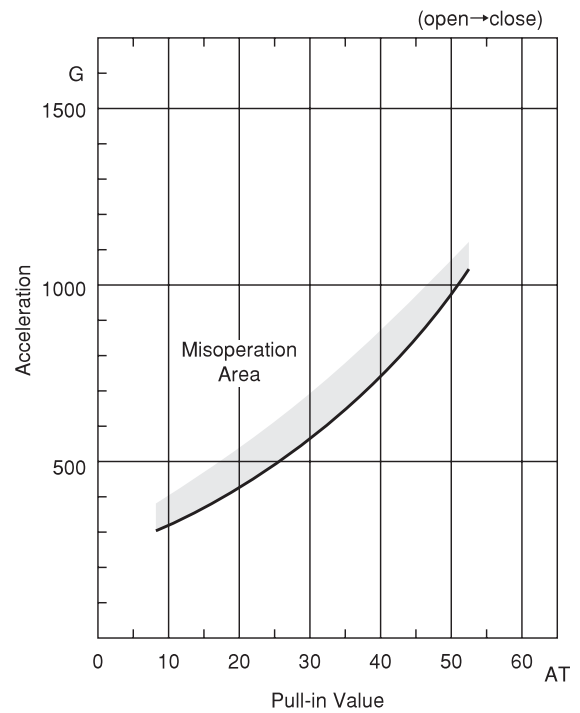


## (6) Shock Test

## 1) Electrical Characteristics

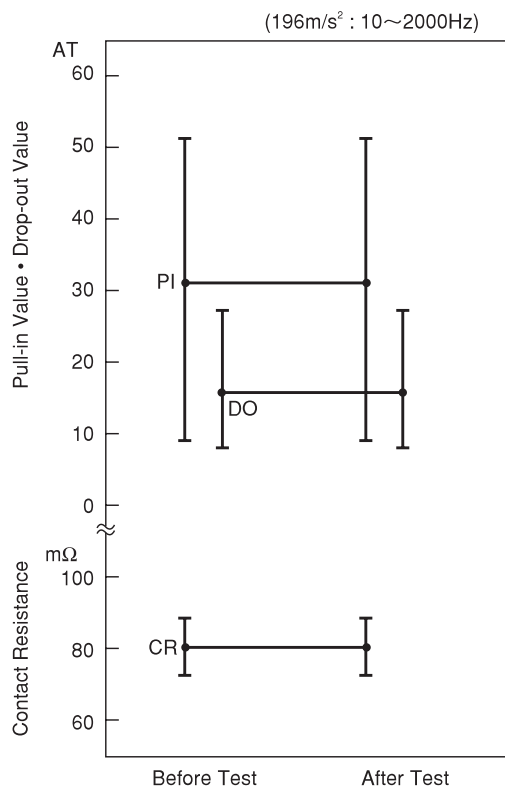


## 2) Misoperation Area



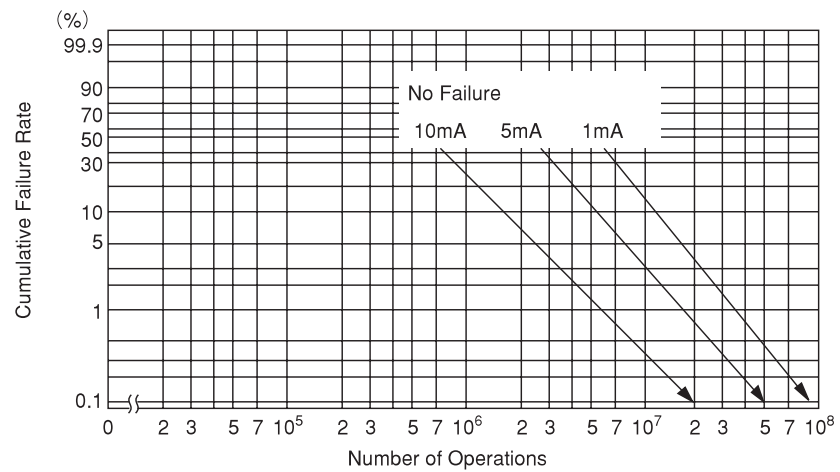
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## (7) Vibration Test



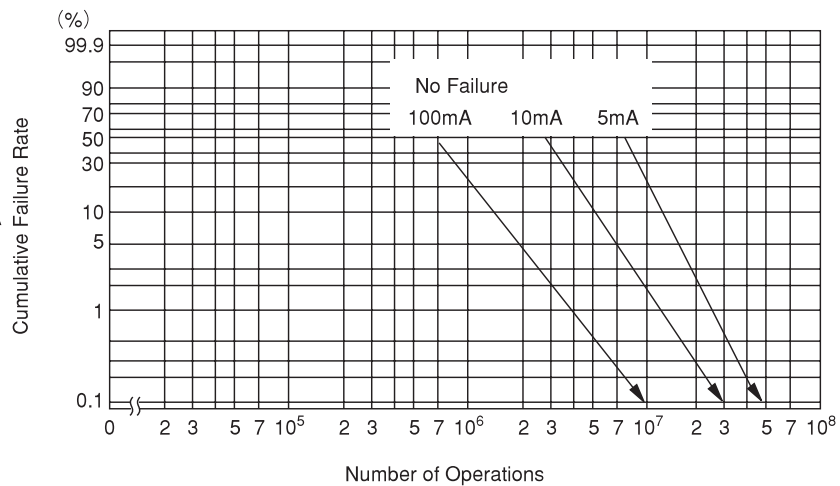
■ LIFE EXPECTANCY DATA: ORD325

Load Conditions  
Voltage: 5VDC  
Current: 1mA, 5mA, 10mA  
Load: Resistive Load



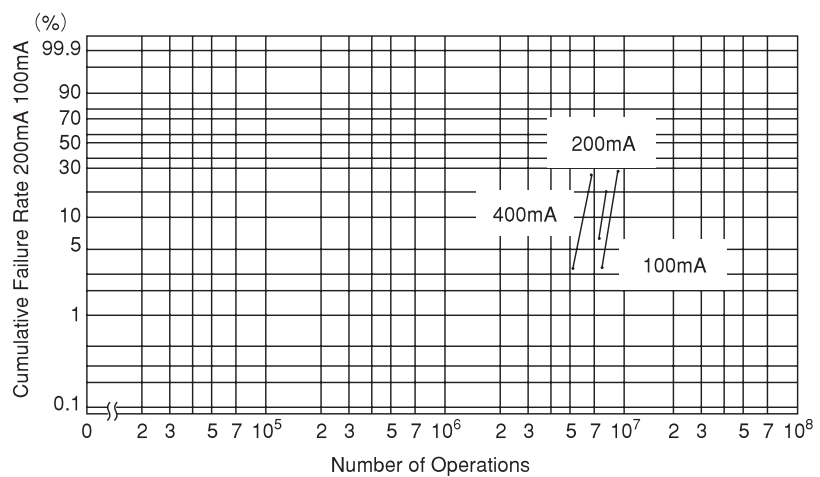
\* Arrow indicates number of operations where test was completed.

Load Conditions  
Voltage: 12 VDC  
Current: 5mA, 10mA, 100mA  
Load: Resistive Load



\* Arrow indicates number of operations where test was completed.

Load Conditions  
Voltage: 24 VDC  
Current: 100mA, 200mA, 400mA  
Load: Resistive Load



## Данный компонент на территории Российской Федерации

**Вы можете приобрести в компании MosChip.**

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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