REED SWITCH

ORD325

General purpose miniature-type

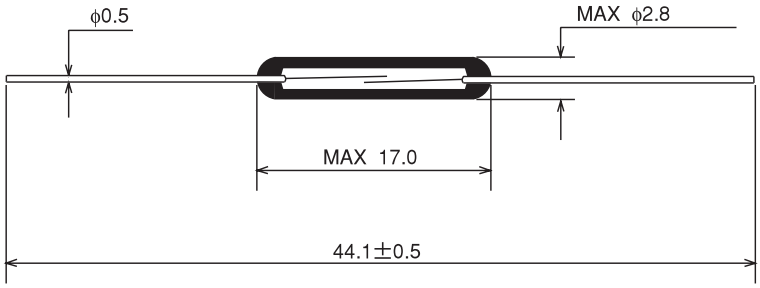
■ GENERAL DESCRIPTION

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)



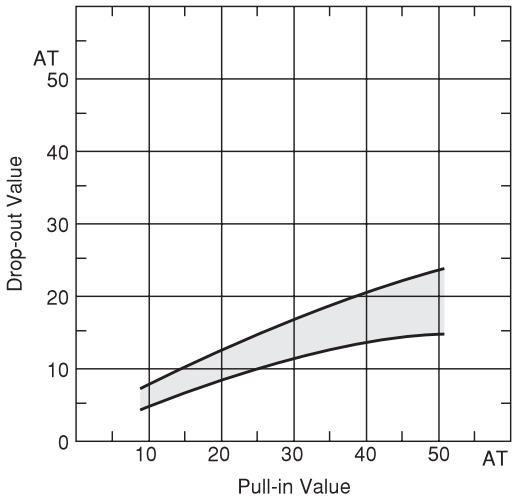
■ APPLICATIONS

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

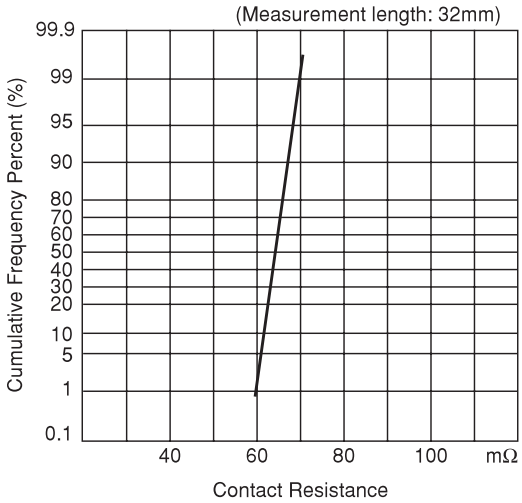
■ ELECTRICAL CHARACTERISTICS

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≧15)	VDC
	250min (PI＜15)	VDC
Insulation Resistance	10^{10}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

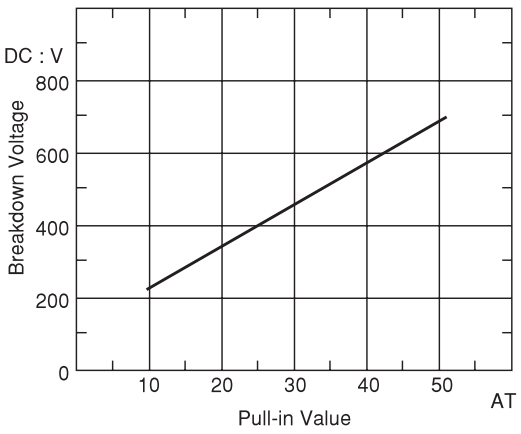
(1) Pull-in Value vs. Drop-out Value



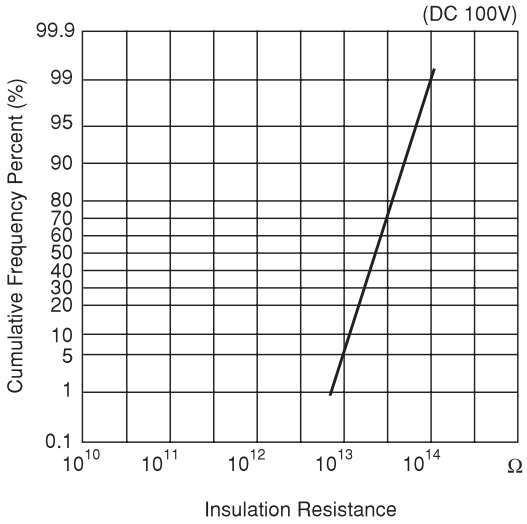
(2) Contact Resistance



(3) Breakdown Voltage

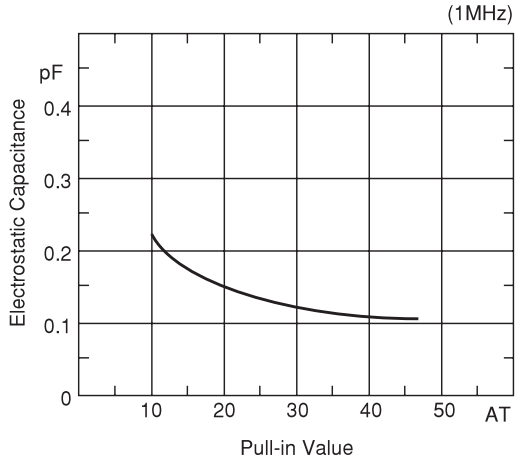


(4) Insulation Resistance



3

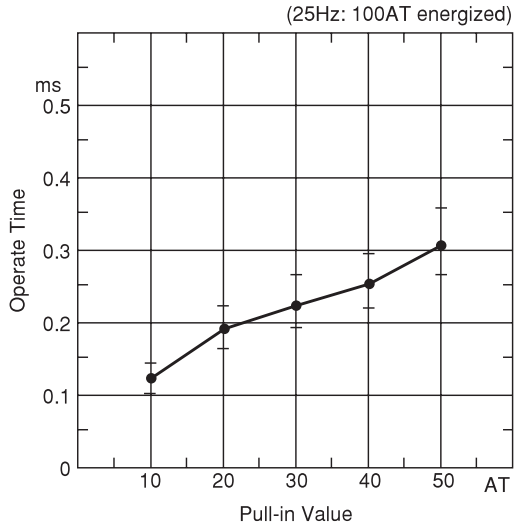
(5) Electrostatic Capacitance



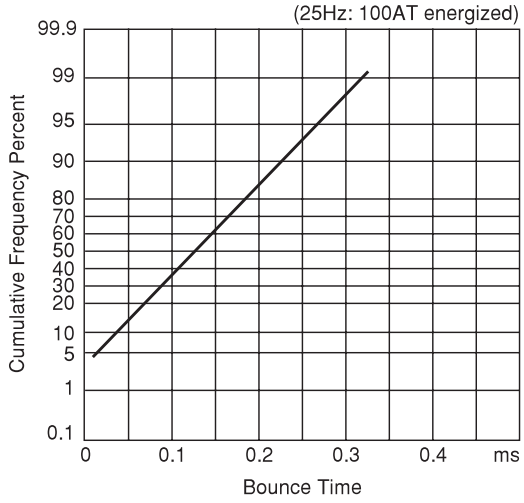
■ OPERATING CHARACTERISTICS

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

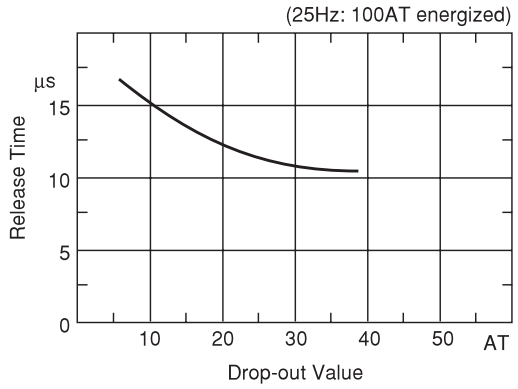
(1) Operate Time



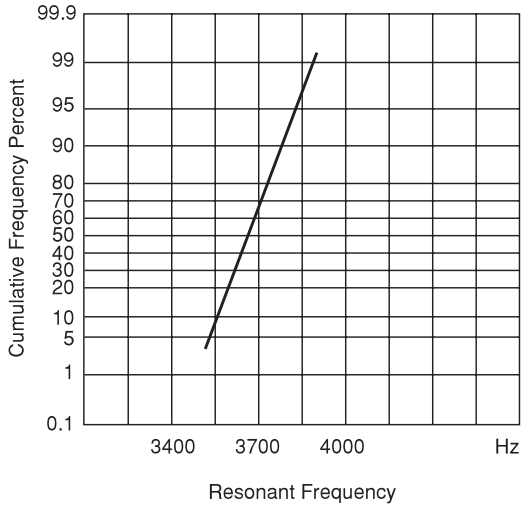
(2) Bounce Time



(3) Release Time

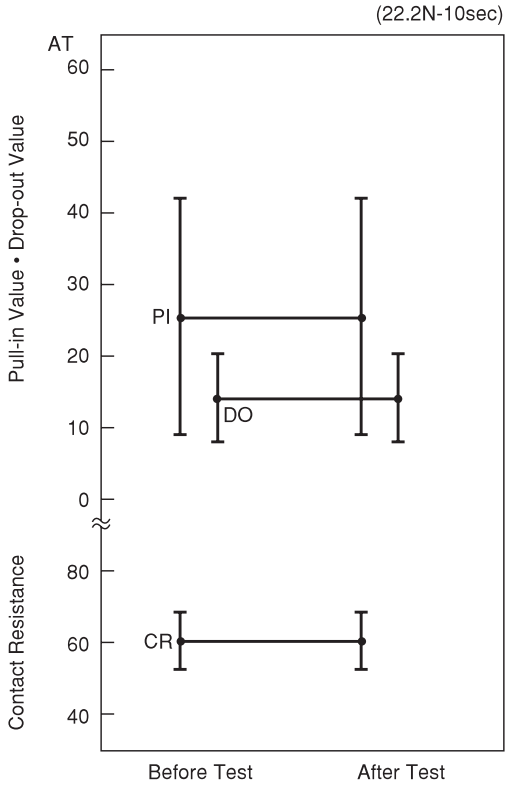


(4) Resonant Frequency

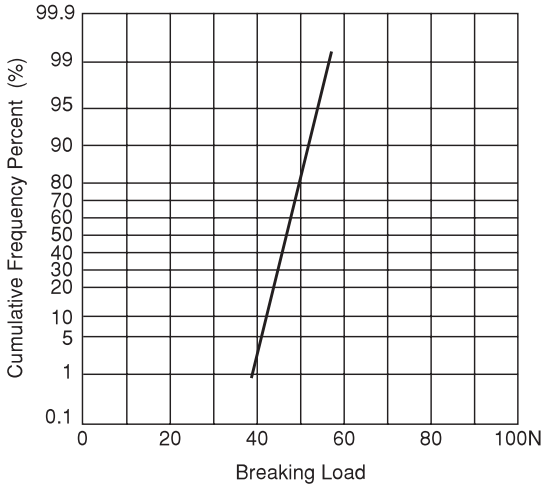


■ MECHANICAL CHARACTERISTICS

(1) Lead Tensile Test (Static Load)

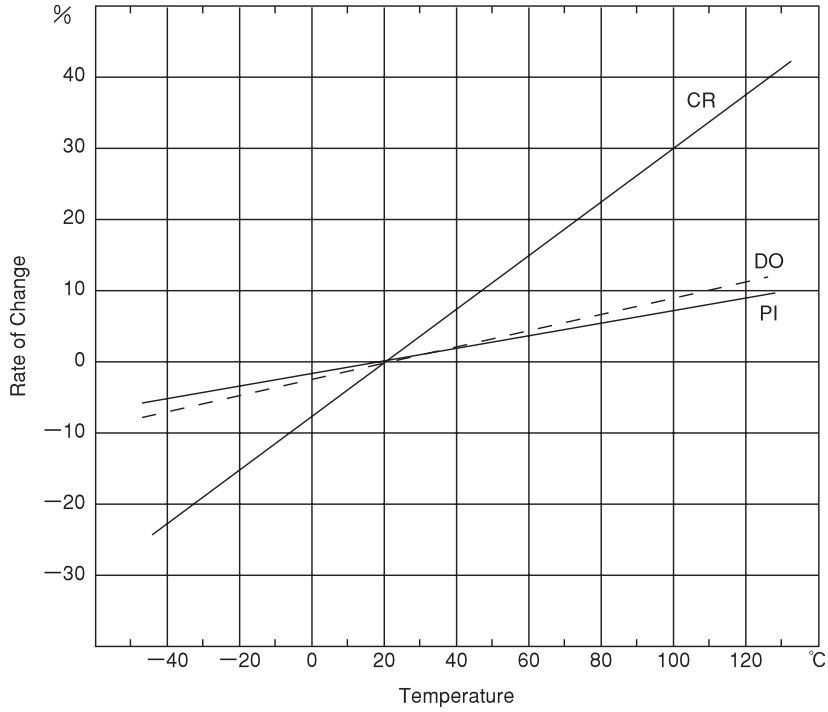


(2) Lead Tensile Strength



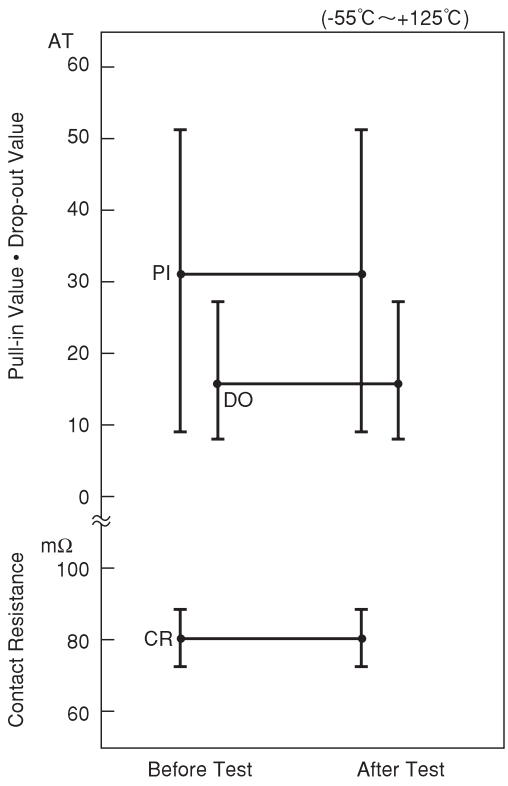
■ ENVIRONMENTAL CHARACTERISTICS

(1) Temperature Characteristics

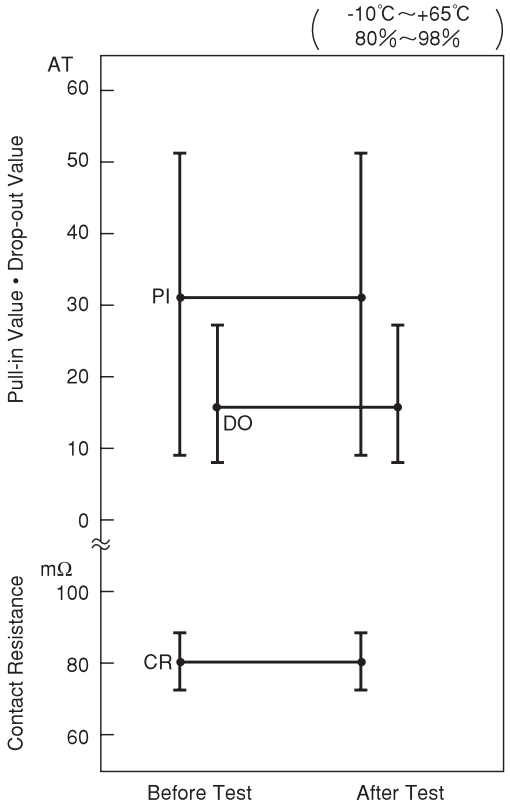


3

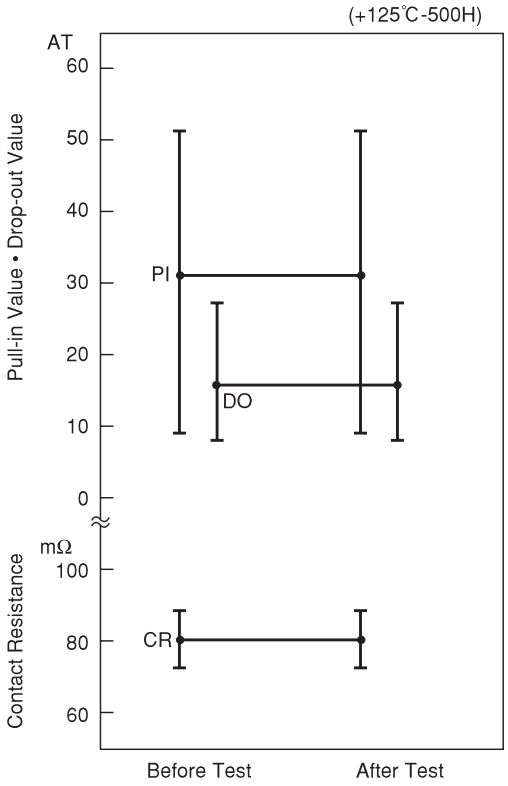
(2) Temperature Cycle



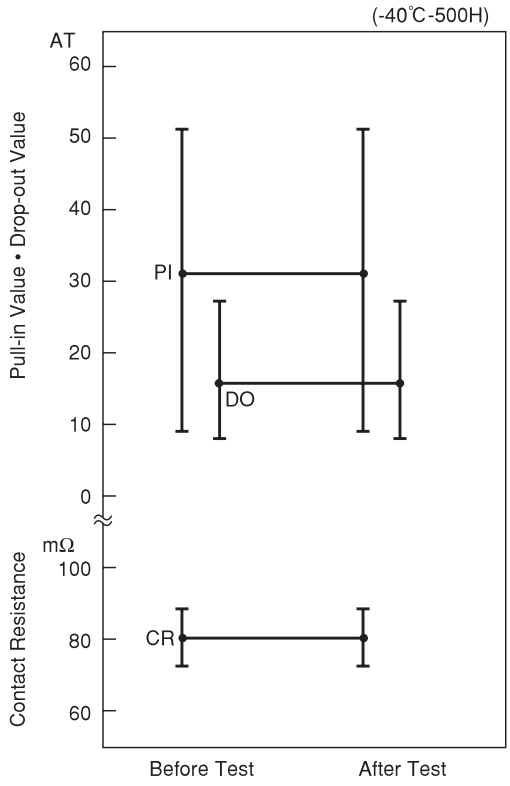
(3) Temperature and Humidity Cycle



(4) High Temperature Storage Test

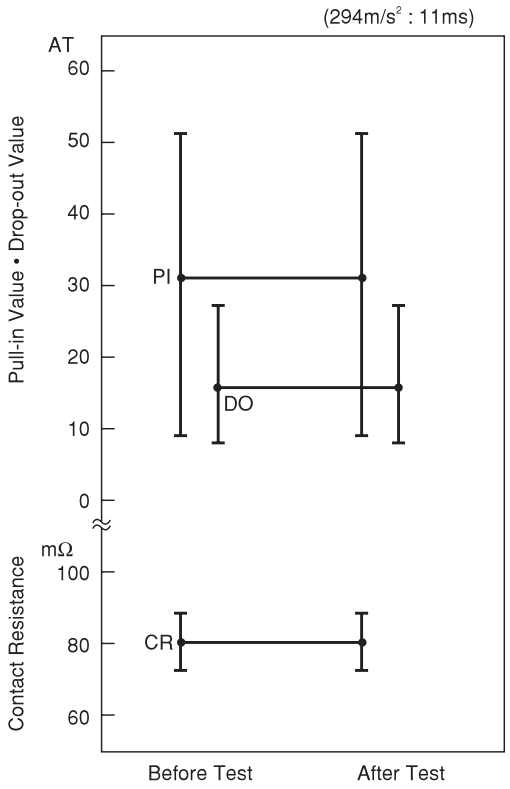


(5) Low Temperature Storage Test

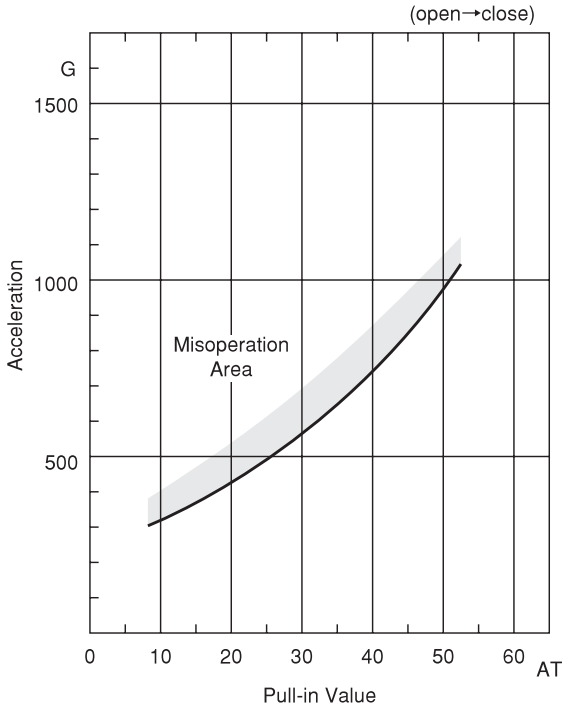


(6) Shock Test

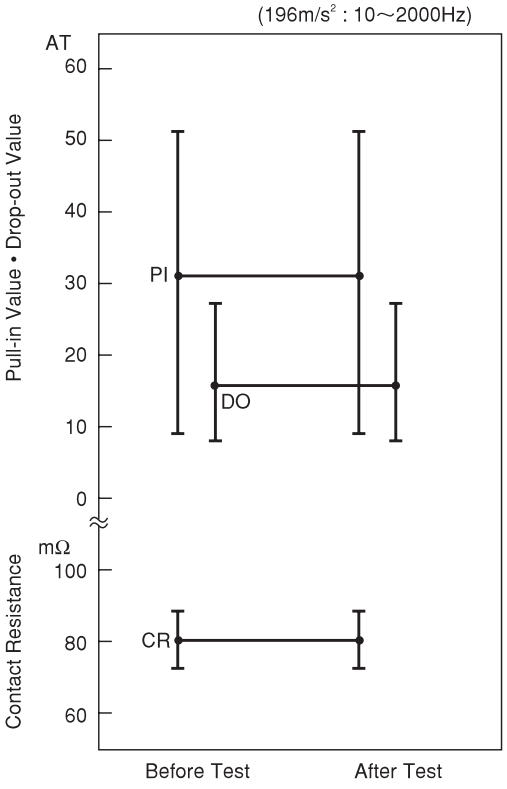
1) Electrical Characteristics



2) Misoperation Area



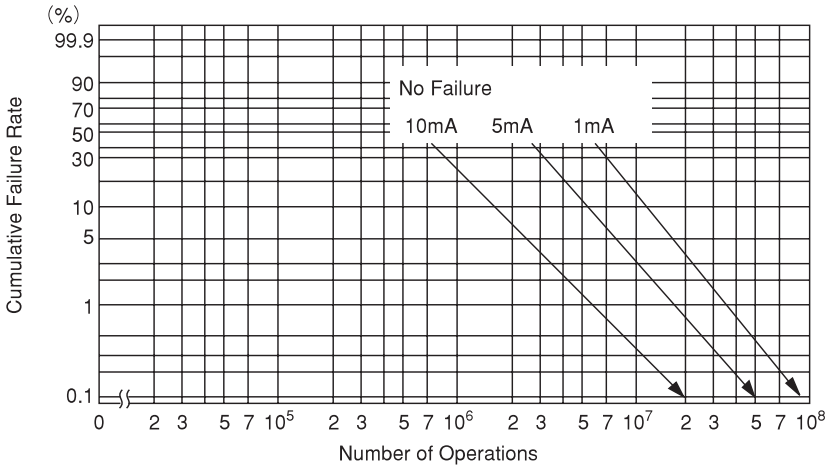
(7) Vibration Test



3

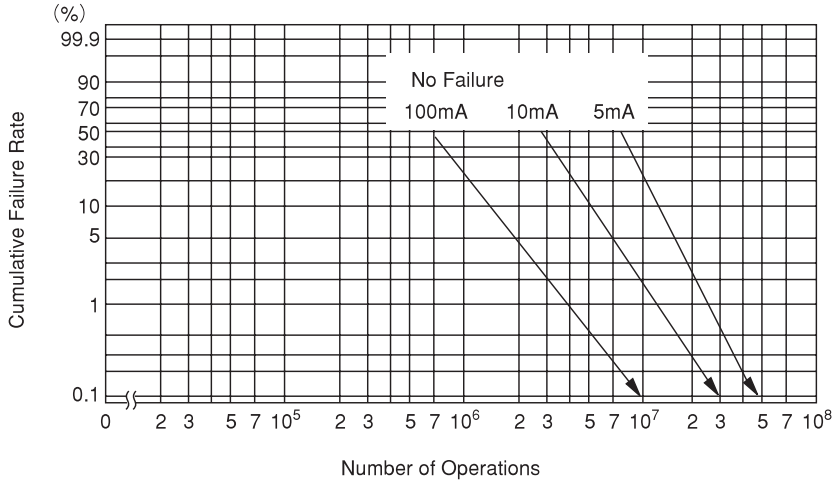
■ LIFE EXPECTANCY DATA: ORD325

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, 12mA, 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