

# ORD324 Reed Switch

## General purpose miniature-type

- The ORD324 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.



## ORD324

### General purpose miniature-type

#### Applications

- Automotive electronic devices
- Communication equipment
- Household appliances
- Control equipment
- Measurement equipment

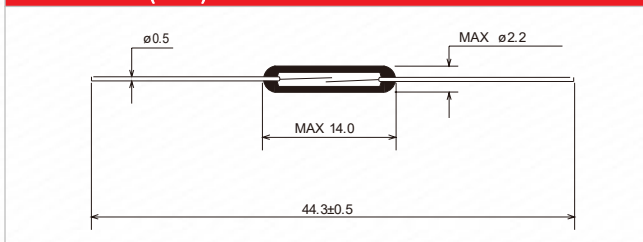
### Features

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

### Electrical Characteristics

Parameter	Rated Value	Unit
Pull-in Value (PI)	10 to 40	AT
Drop-out Value (DO) (min.)	4	AT
Contact Resistance (CR) (max.)	100	mOhm
Breakdown Voltage (min.)	250	VDC
Insulation Resistance (min.)	10 <sup>10</sup>	Ohm
Electrostatic Capacitance (max.)	0.3	pF
Contact Rating	10	W
Maximum Switching Voltage (max.)	200DC/150AC	V
Maximum Switching Current (max.)	0.5	A
Maximum Carry Current (max.)	1.0	A

### Dimensions (mm)



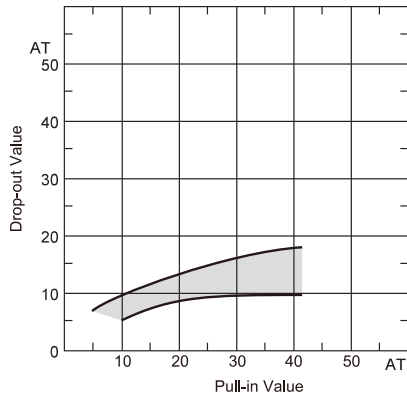
### Operating Characteristics

Parameter	Rated Value	Unit
Operate Time (max.)	0.4	ms
Bounce Time (max.)	0.3	ms
Release Time (max.)	0.05	ms
Resonant Frequency	5000 ± 400	Hz
Operating Frequency (max.)	500	Hz

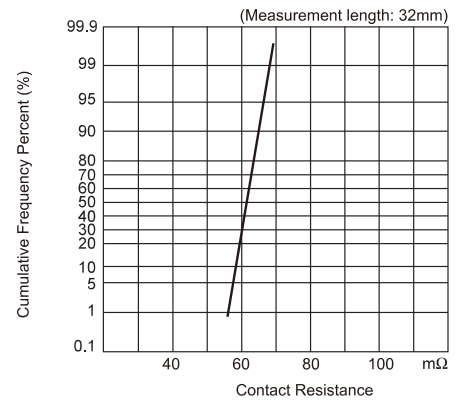
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## ELECTRICAL CHARACTERISTICS

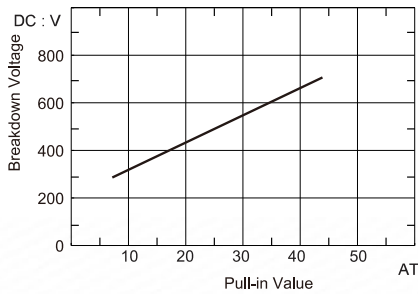
Pull-in Value vs. Drop-out Value



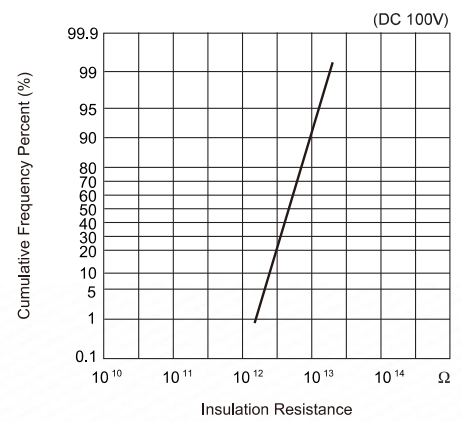
Contact resistance



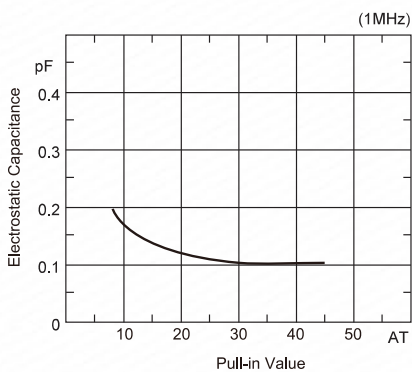
Breakdown voltage



Insulation resistance



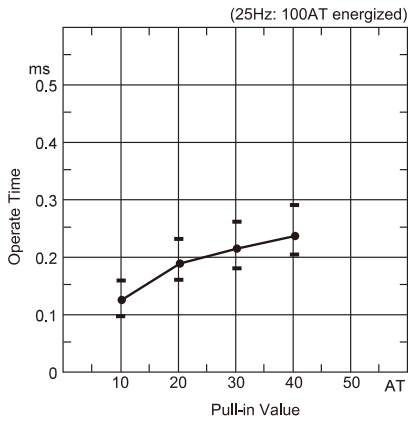
Electrostatic capacitance



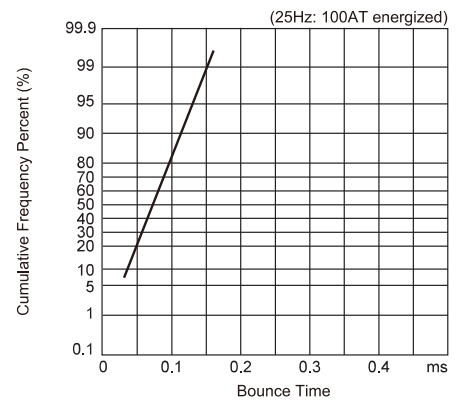
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## OPERATING CHARACTERISTICS

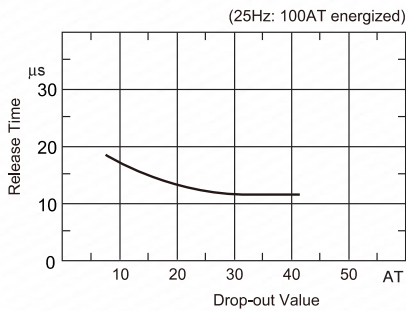
### Operate time



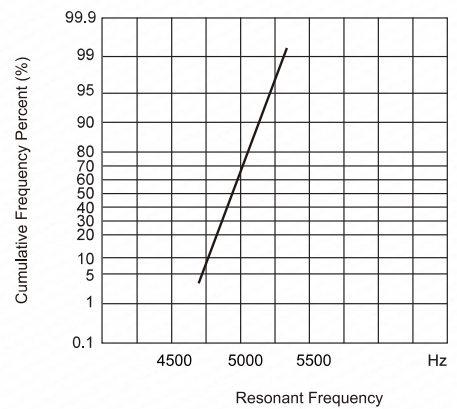
### Bounce time



### Release time

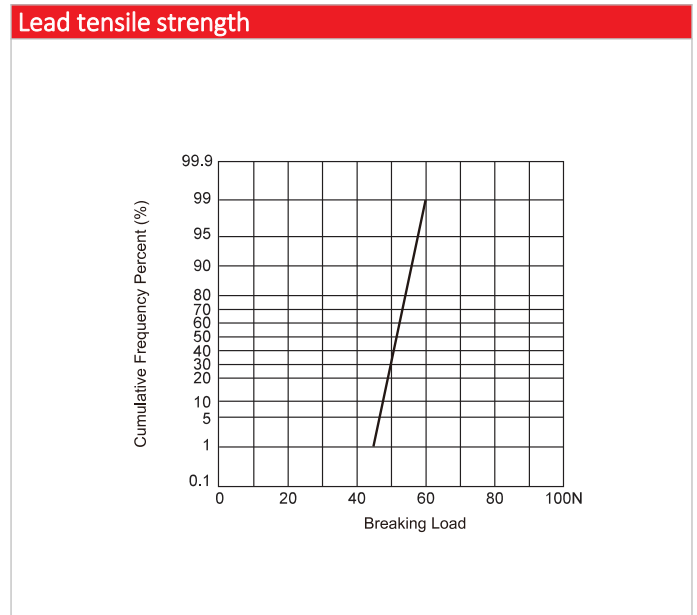
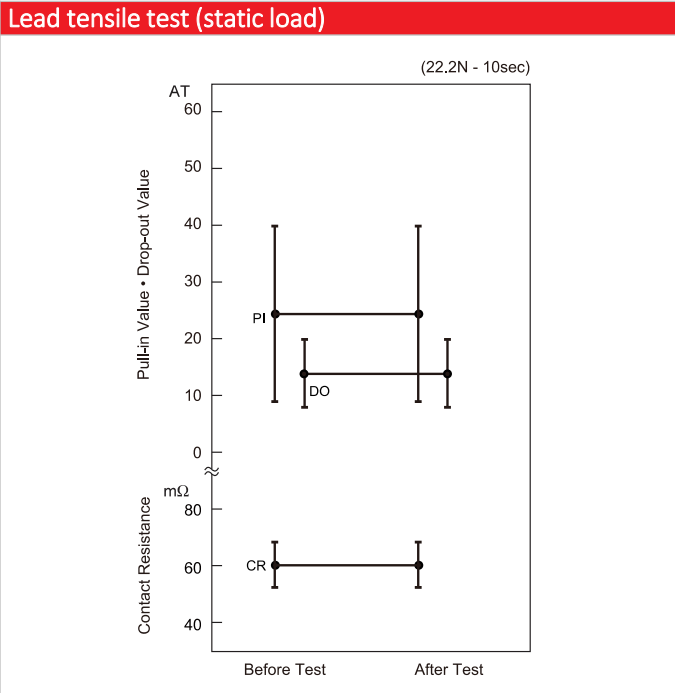


### Resonant frequency



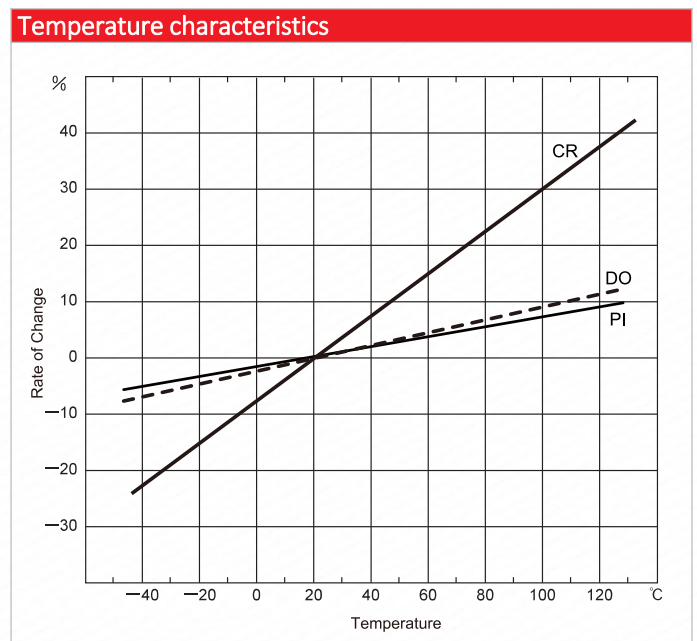
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## MECHANICAL CHARACTERISTICS



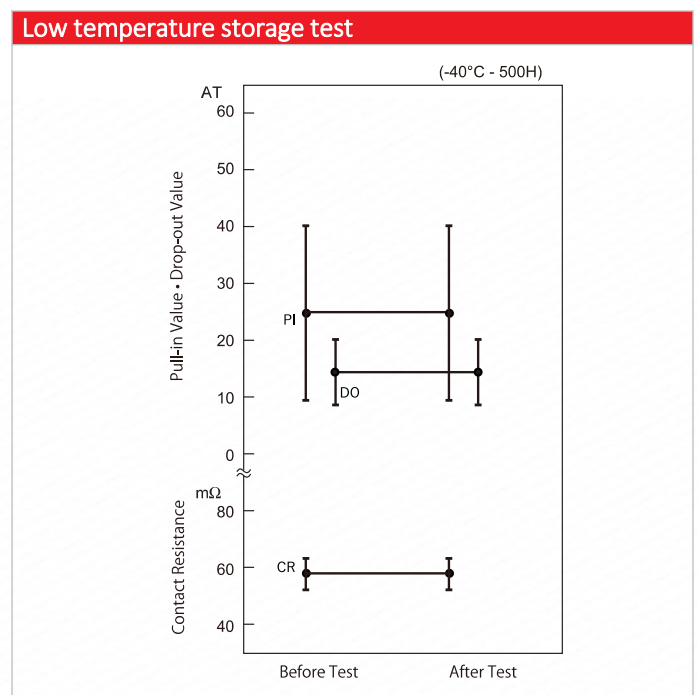
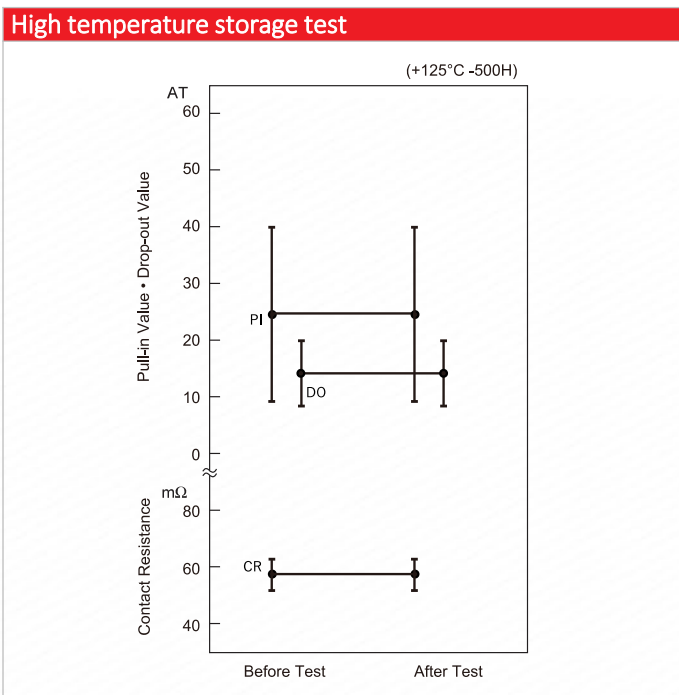
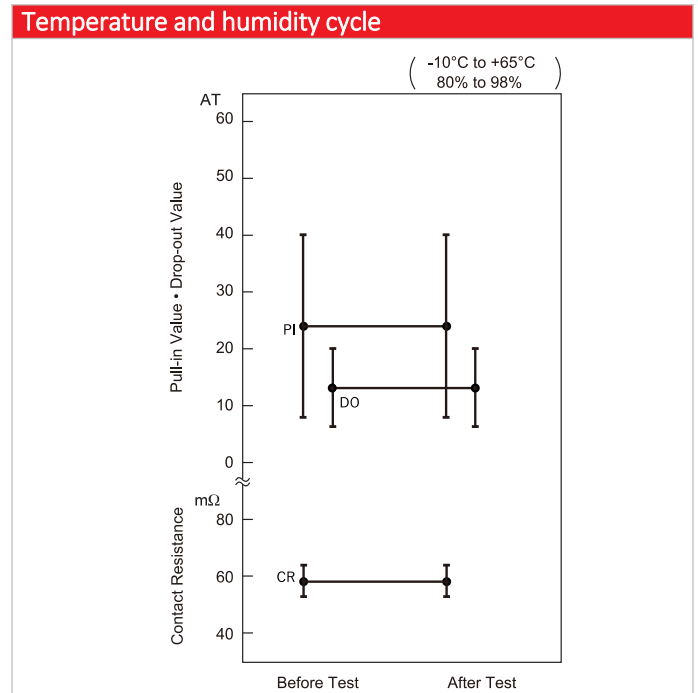
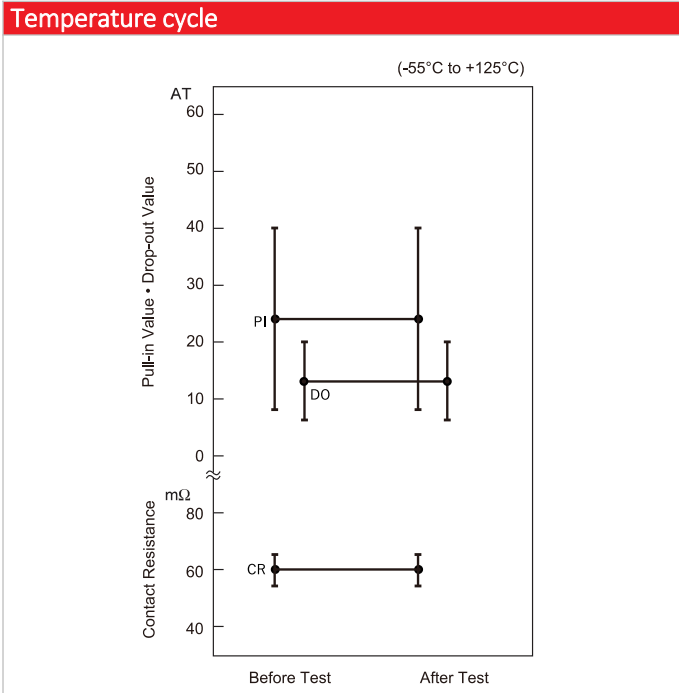
## ENVIRONMENTAL CHARACTERISTICS

Parameter	Rated Value	Unit
Temperature range	-40 to +125	°C
Shock (11ms)	980(100G)	m/s <sup>2</sup>
Vibration (10~2000Hz)	490(50G)	m/s <sup>2</sup>
Lead tensile strength	29.4(3.0kgf)	N



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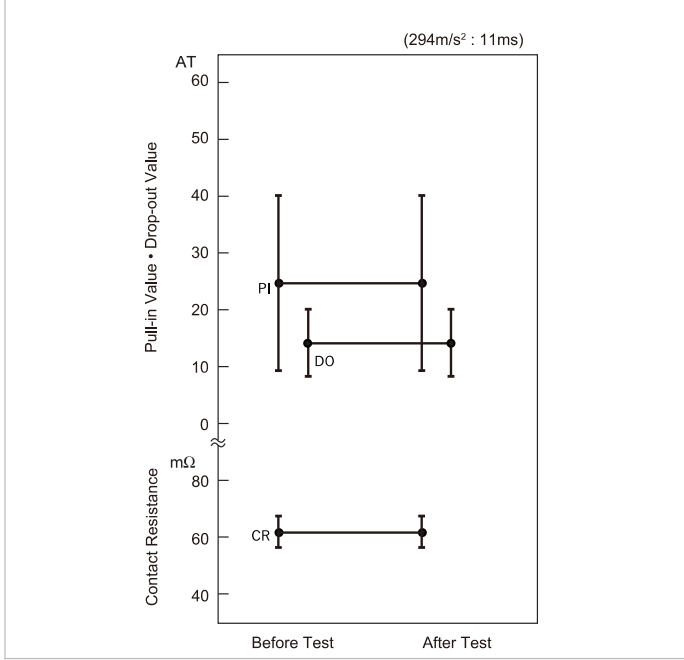
## ENVIRONMENTAL CHARACTERISTICS



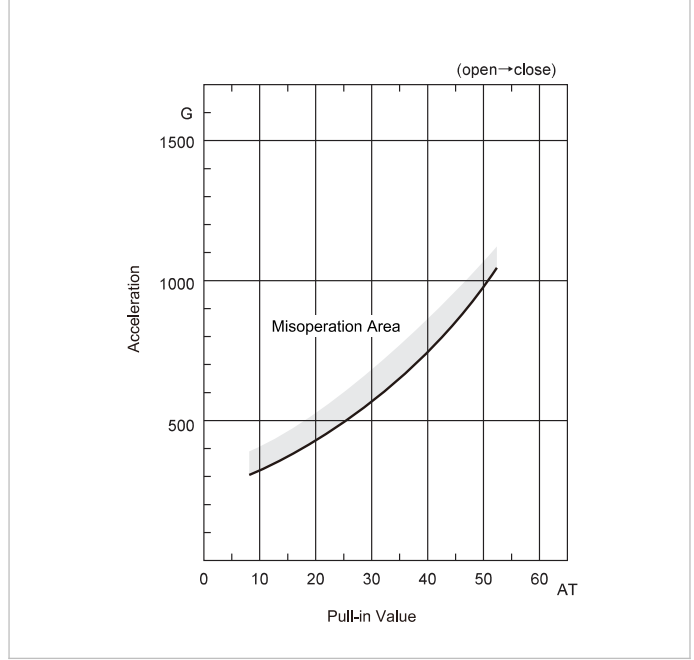
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## ENVIRONMENTAL CHARACTERISTICS

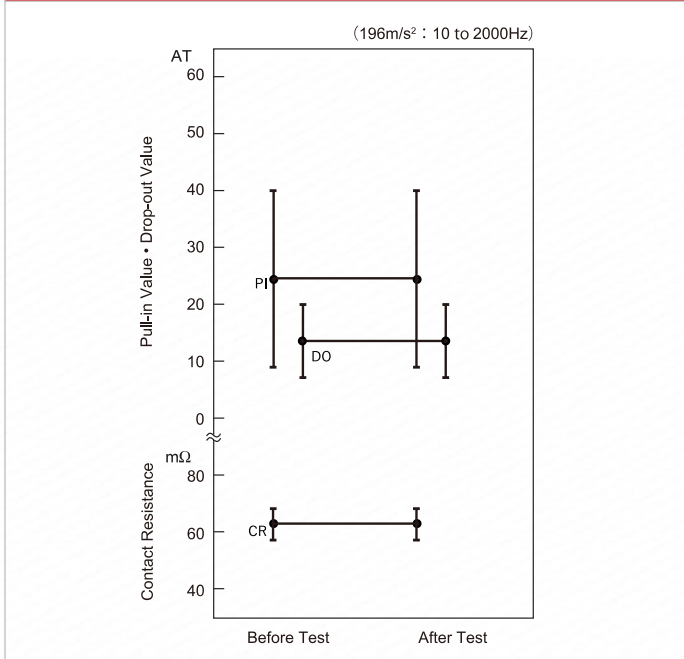
### Shock test (Electrical characteristics)



### Shock test (Misoperation area)



### Vibration test



Please note: All technical specifications on this datasheet refer to the standard product range. Modifications in the sense of technical progress are reserved. For general information only. For more specific information, please consult the product datasheet, available upon request.

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