# REED SWITCH ORD213

# Super Ultraminiature

# GENERAL DESCRIPTION

The ORD213 is a small single-contact reed switch designed for general control of low-level loads less than 24 V. The reed contacts are sealed within the glass tube within inert gas to maintain contact reliability.

## FEATURES

- (1) Reed contacts are hermetically sealed within a glass tube with inert gas and do not receive any influence from the external atmospheric environment.
- (2) Quick response
- (3) The structure comprises the operating parts and electrical circuits arranged coaxially. Reed switches are suited to applications in radio frequency operation.
- (4) Reed switches are compact and light weight.
- (5) Superior corrosion resistance and wear resistance of the contacts assures stable switching operation and long life.
- (6) With a permanent magnet installed, reed switches economically and easily become proximity switches.

## EXTERNAL DIMENSIONS (Unit: mm)



## APPLICATIONS

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

# ■ ELECTRICAL CHARACTERISTICS

Parameter	Rated value	Unit
Pull-in Value (PI)	10~40	AT
Drop-out Value (DO)	5min	AT
Contact resistance (CR)	200max	mΩ
Breakdown voltage	150min	VDC
Insulation resistance	10 <sup>9</sup> min	Ω
Electrostatic capacitance	0.4max	pF
Contact rating	1.0	VA
Maximum switching voltage	24 ( <sup>DC</sup> <sub>AC</sub> )	V
Maximum switching current	0.1	А
Maximum carry current	0.3	A





(2) Contact resistance



(4) Insulation resistance



#### (5) Electrostatic capacitance

(3) Breakdown voltage



# OPERATING CHARACTERISTICS

Parameter	Rated value	Unit
Operate time	0.3max	ms
Bounce time	0.3max	ms
Release time	0.05max	ms
Resonant frequency	11000±2000	Hz
Maximum operating frequency	500	Hz

(1) Operate time

(2) Bounce time



(3) Release time





(4) Resonant frequency



3

## MECHANICAL CHARACTERISTICS

(1) Lead tensile test (static load)





#### (2) Lead tensile strength

# ENVIRONMENTAL CHARACTERISTICS

(1) Temperature characteristics



(2) Temperature cycle







#### (5) Low temperature storage test



#### (6) Shock test

1) Electrical characteristics





(7) Vibration test



# LIFE EXPECTANCY DATA: ORD213

