REED SWITCH ORD219

Miniature High-performance

GENERAL DESCRIPTION

The ORD219 is a small single-contact reed switch designed for general control of mediumlevel loads less than 100 V. The contacts are sealed within the glass tube with inert gas to maintain contact reliability.

■ FEATURES

- 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)	10~30	AT
Drop-out Value (DO)	5min	AT
Contact resistance (CR)	100max	mΩ
Breakdown voltage	200min	VDC
Insulation resistance	10 ⁹ min	Ω
Electrostatic capacitance	0.3max	pF
Contact rating	10	VA
Maximum switching voltage	100 (^{DC} _{AC})	V
Maximum switching current	0.5	A
Maximum carry current	1.0	A

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



(2) Contact resistance



(3) Breakdown voltage

(4) Insulation resistance



(5) Electrostatic capacitance



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OPERATING CHARACTERISTICS

Parameter	Rated value	Unit
Operate time	0.4max	ms
Bounce time	0.3max	ms
Release time	0.05max	ms
Resonant frequency	5900±400	Hz
Maximum operating frequency	500	Hz

(1) Operate time



(3) Release time



(2) Bounce time



(4) Resonant frequency

Cumulative frequency percent (%)



Resonant frequency

MECHANICAL CHARACTERISTICS

(1) Lead tensile test (static load)





(2) Lead tensile strength

ENVIRONMENTAL CHARACTERISTICS

(1) Temperature characteristics



(2) Temperature cycle

(3) Temperature and humidity cycle





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(6) Shock test







(7) Vibration test



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LIFE EXPECTANCY DATA: ORD219

