

REED SWITCH

ORD2211

Lamp Load (12 V – 3.4 W Lamp Switching)

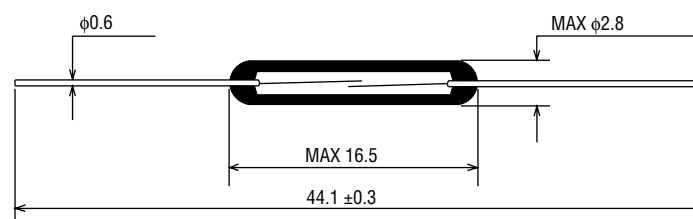
GENERAL DESCRIPTION

The ORD2211 is a single-contact reed switch designed for direct opening or closing lamps of 12 V - 3.4 W. The contacts are sealed within the glass tube with 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 an operating system and electrical circuits coaxially. Reed switches are suited to applications in radio frequency.
- (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)



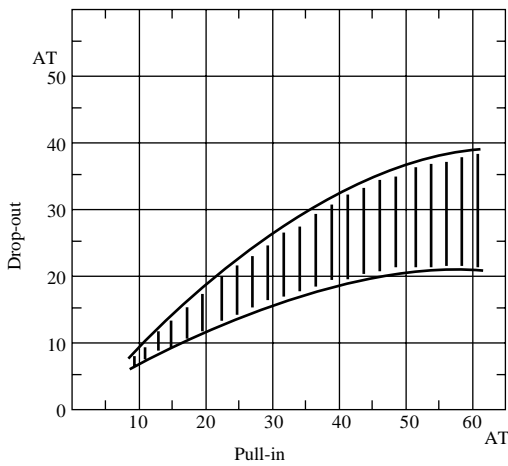
APPLICATIONS OF REED SWITCHES

1. Automotive electronic devices
2. Control equipment
3. Communication equipment
4. Measurement equipment
5. Household appliances

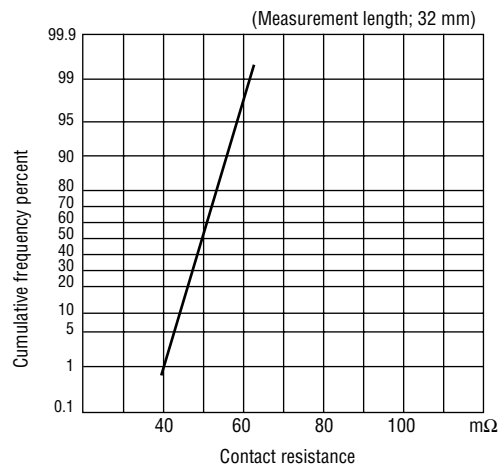
ELECTRICAL CHARACTERISTICS

| Parameter | Symbol | Condition | Rated Value | | | Unit |
|---------------------------|--------|-----------|-----------------|------|-----------------------------------|------|
| | | | Min. | Typ. | Max. | |
| Pull-in Value | PI | — | 20 | — | 60 | AT |
| Drop-out Value | DO | — | 8 | — | — | AT |
| Contact Resistance | CR | — | — | — | 100 | mΩ |
| Breakdown Voltage | — | PI≥20 | 200 | — | — | VDC |
| Insulation Resistance | — | — | 10 ⁹ | — | — | Ω |
| Electrostatic Capacitance | — | — | — | — | 0.3 | pF |
| Contact Rating | — | — | — | — | 50 (12 V-3.4 W Lamp) | VA |
| Maximum Switching Voltage | — | — | — | — | 100 ^{DC} / _{AC} | V |
| Maximum Switching Current | — | — | — | — | 0.5 (Inrush Current 3 A) | A |
| Maximum Carry Current | — | — | — | — | 2.5 | A |

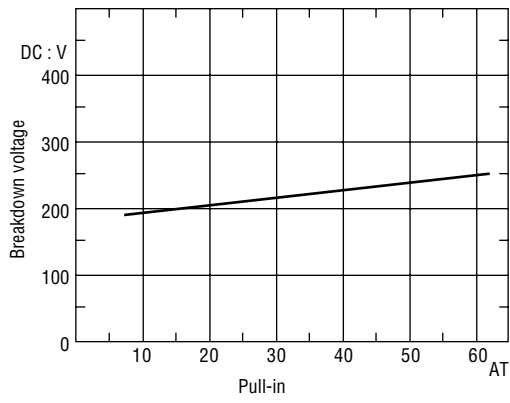
(1) Drop-out vs. Pull-in



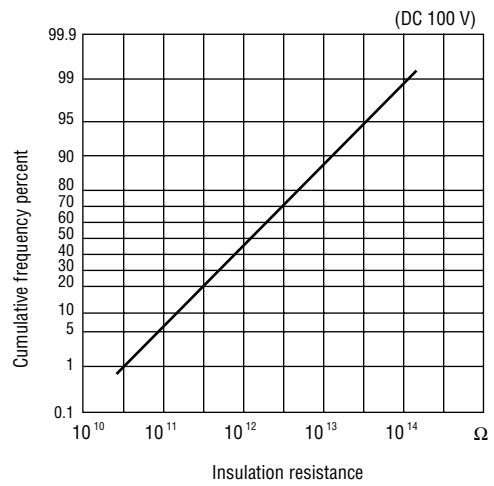
(2) Contact resistance



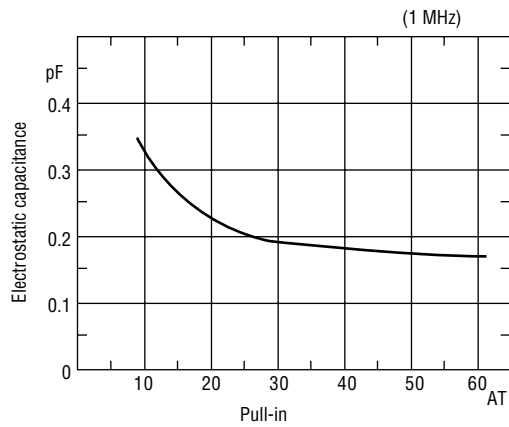
(3) Breakdown voltage



(4) Insulation resistance



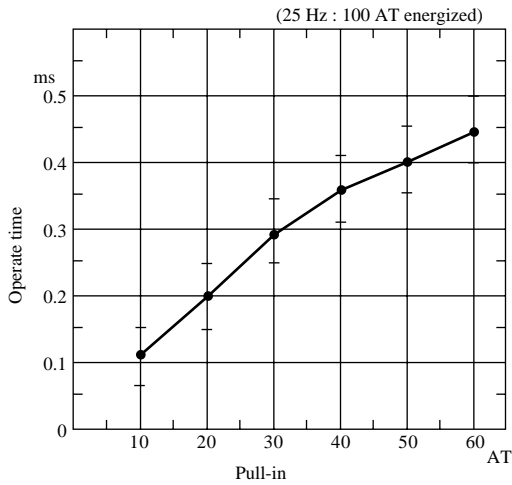
(5) Electrostatic capacitance



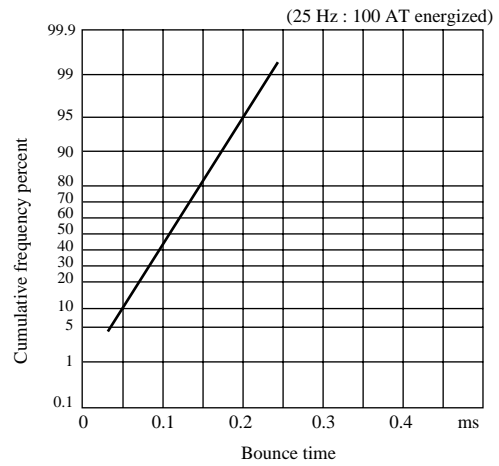
OPERATING CHARACTERISTICS

| Parameter | Rated Value | | | Unit |
|-----------------------------|-------------|------|------|------|
| | Min. | Typ. | Max. | |
| Operate Time | — | — | 0.6 | ms |
| Bounce Time | — | — | 0.4 | ms |
| Release Time | — | — | 0.05 | ms |
| Resonant Frequency | 4100 | 4600 | 5100 | Hz |
| Maximum Operating Frequency | — | — | 500 | Hz |

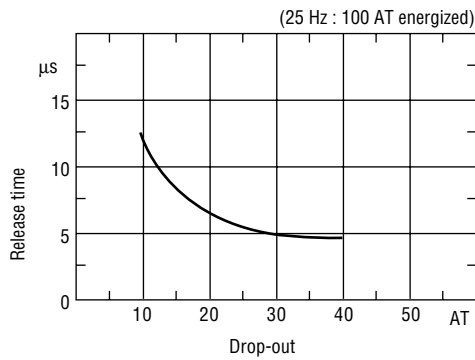
(1) Operate time



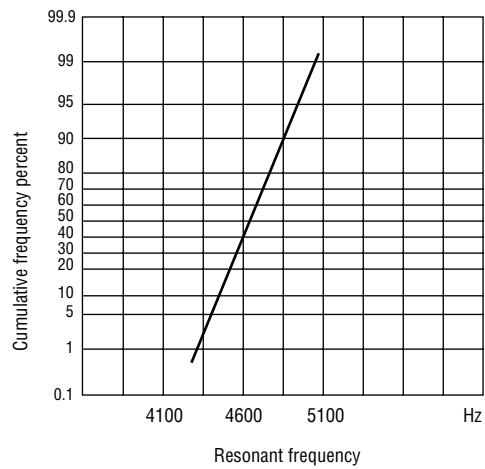
(2) Bounce time



(3) Release time

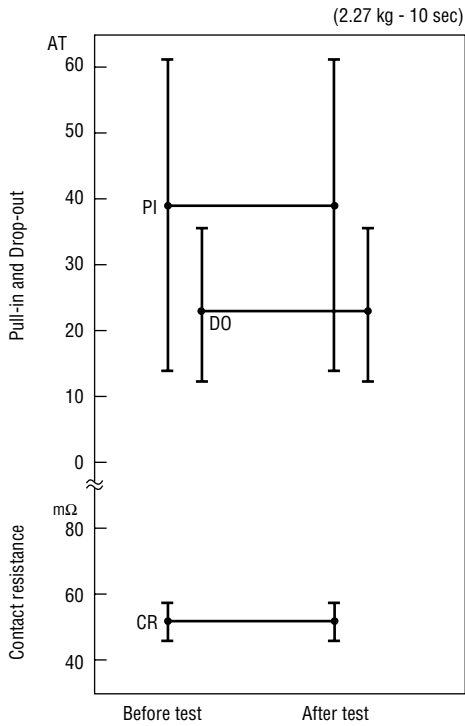


(4) Resonant frequency

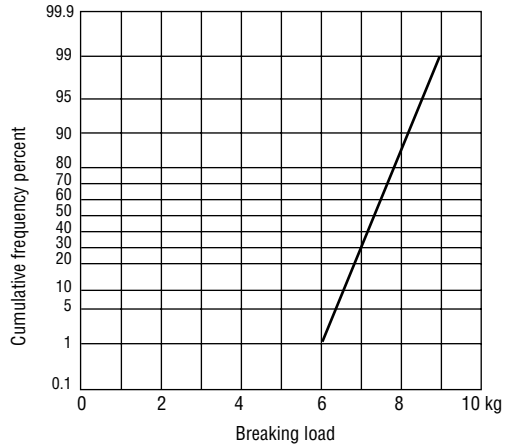


MECHANICAL CHARACTERISTICS

(1) Lead tensile test (static load)

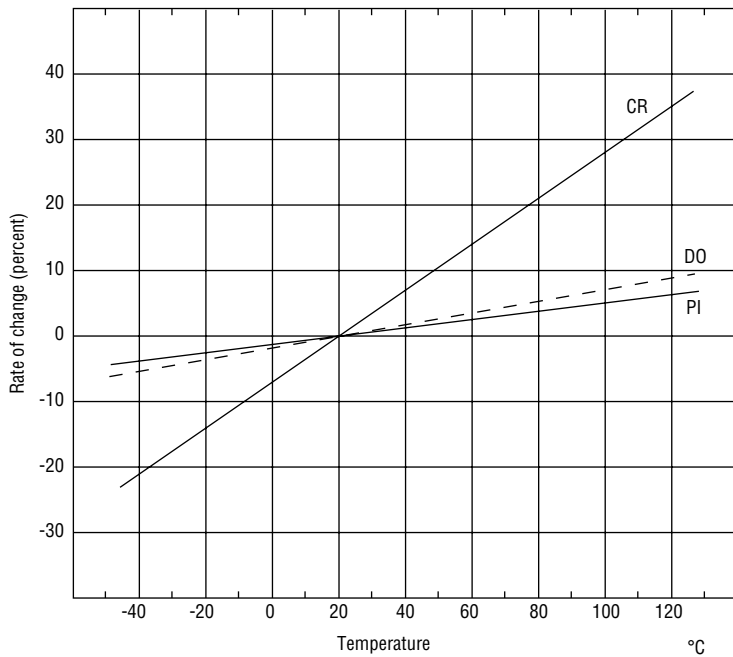


(2) Lead tensile strength

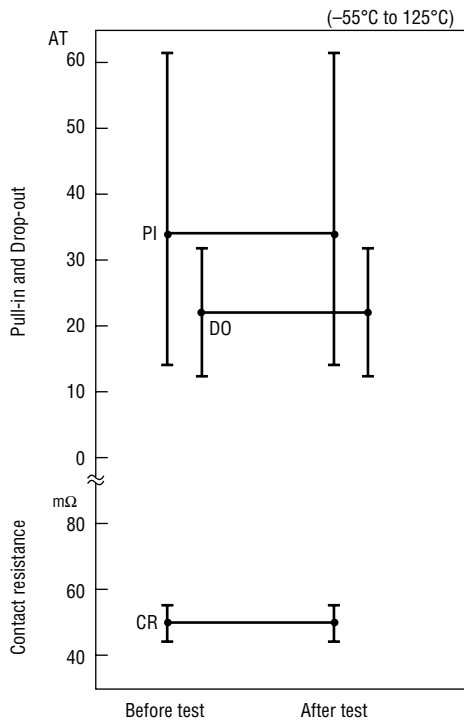


ENVIRONMENTAL CHARACTERISTICS

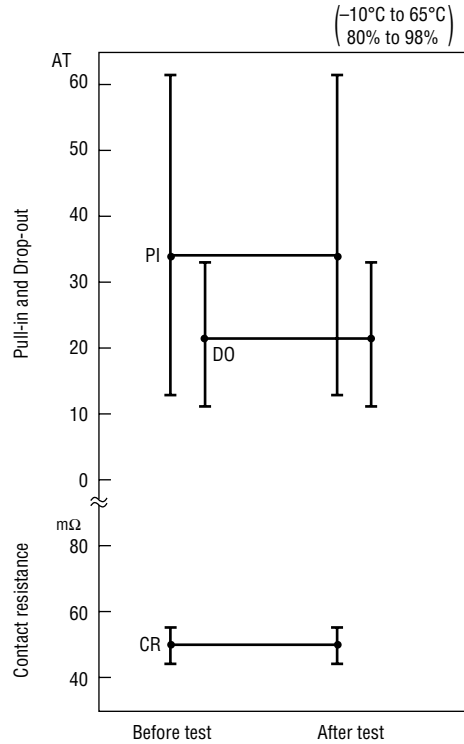
(1) Temperature characteristics



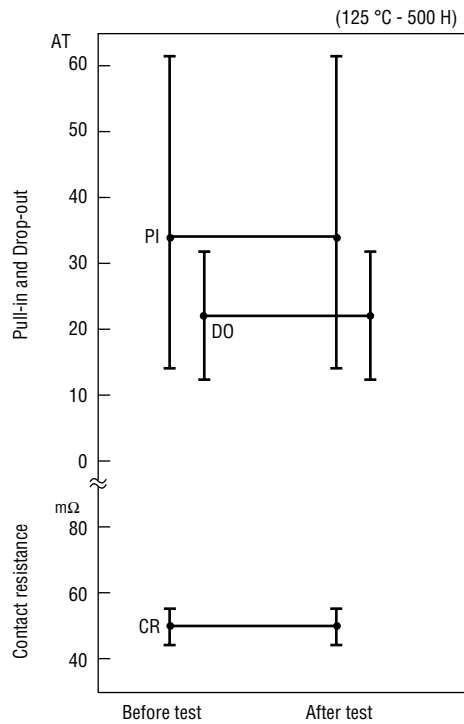
(2) Temperature cycle



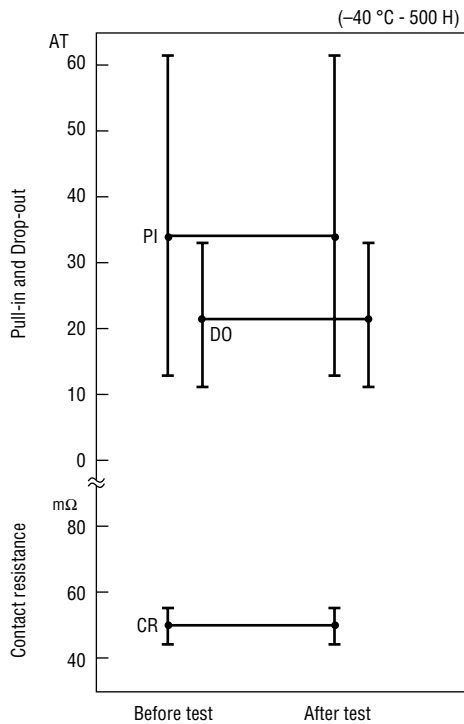
(3) Temperature and humidity cycle



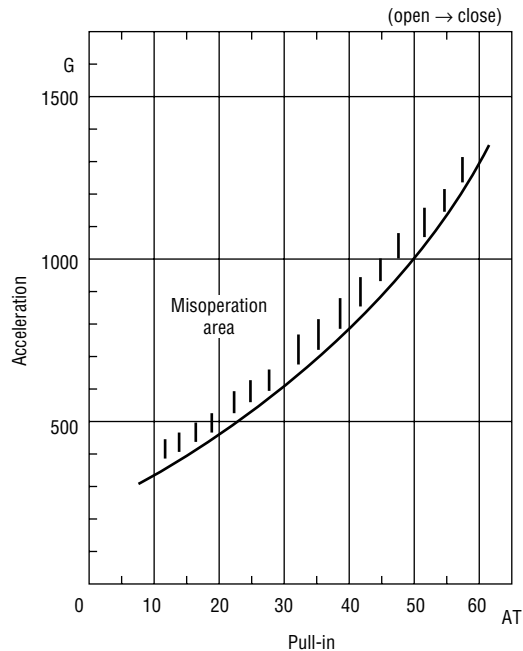
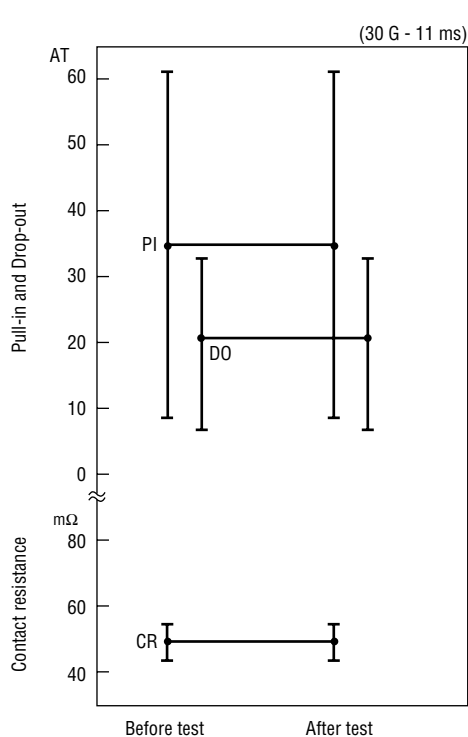
(4) High temperature storage test



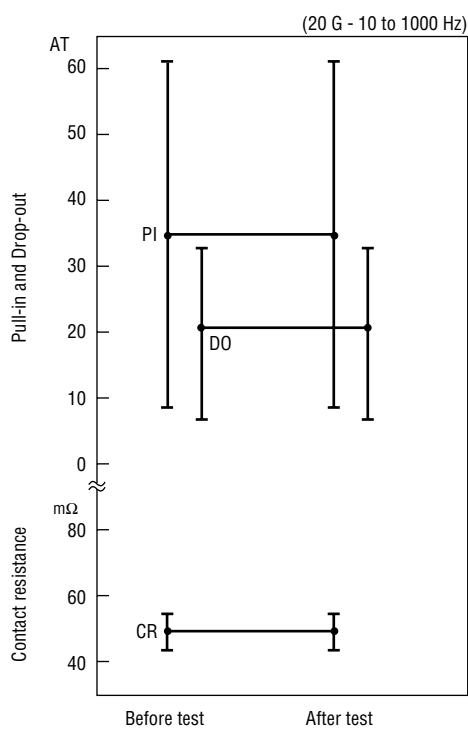
(5) Low temperature storage test



(6) Shock test



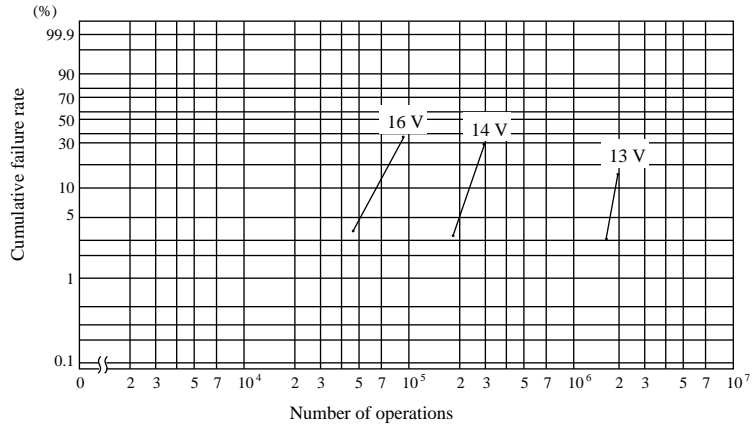
(7) Vibration test



LIFE EXPECTANCY DATA: ORD2211

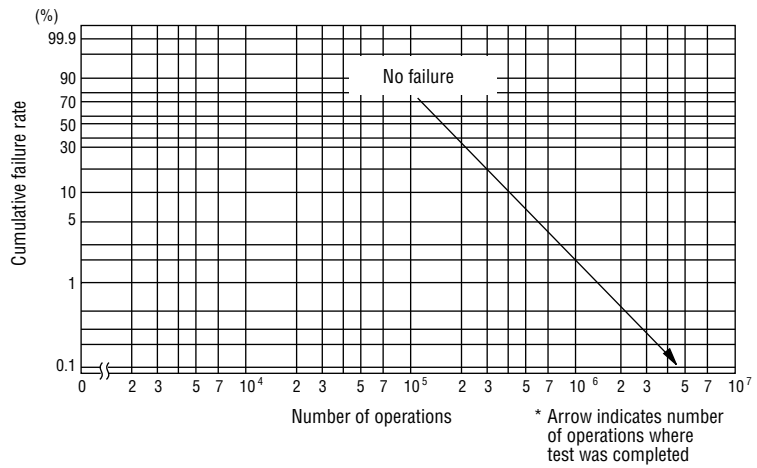
Load conditions

Voltage : 13, 14, 16 : VDC
 Load : 12 V-3.4 W Lamp



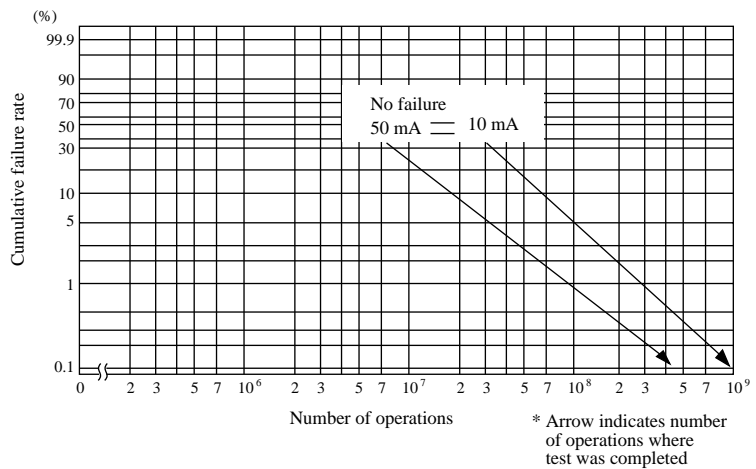
Load conditions

Voltage : 50 VDC
 Current : 1 A
 Load : Resistive load



Load conditions

Voltage : 6 VDC
 Current : 10 mA, 50 mA
 Load : Resistive load



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