

Reed Switch specifications

Model No: LDW-1003

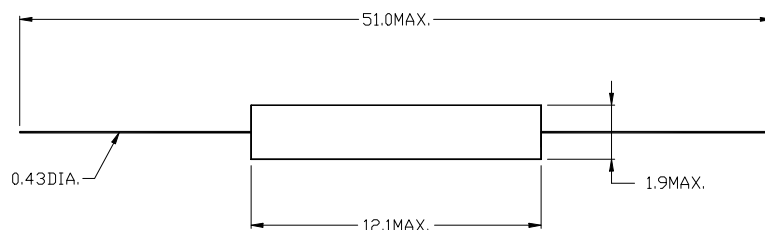
Features

- The LDW-1003 is a ultra miniature single-contact reed switch designed for high speed low level switching systems

Applications

- Automotive electronic devices
- Rotation and speed Monitoring
- Door and Window Contacts for Security System
- Communication equipment
- Measurement equipment

Dimensions



Outer Dimension	Glass Diameter (Max.)	1.9	mm
	Glass Length (Max.)	12.1	mm
	Lead Diameter (Nominal)	0.43	mm
	Overall Length (Max.)	51.0	mm

Electrical Characteristics

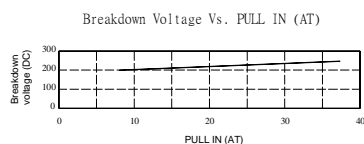
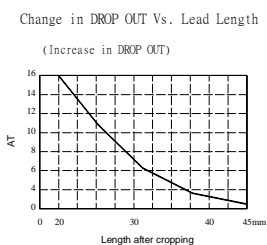
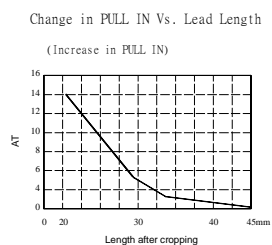
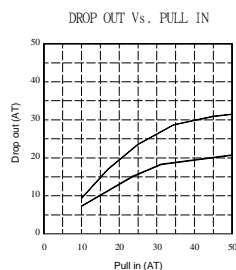
Contact form		SPST Form A Center gap
Contact material		Rhodium
Switching power	(max.)	3 VA
Switching Current	(max.)	0.1 Amp. DC 0.1Amp. AC
Carry Current	(max.)	0.5 Amp. DC 0.5Amp. AC
Switching voltage	(max.)	28 VDC
Breakdown voltage	(min.)	200 VDC
Contact resistance	(max.)	200 Miniohms
Insulation resistance	(min.)	10 ¹⁰ Ohms
Contact capacitance	(max.)	0.2 pF
Operate time including bounce	(typ.)	1.0 ms
Release time	(typ.)	0.1 ms
Pull in Range		10 – 50 AT
Drop out		40 – 90%

Note: 1. The specification for VA rating may be exceeded for less sensitive (High AT) switches, and should be decreased for very sensitive (Low AT) switches. Specific life testing for a particular load will be run upon request.

2. Breakdown voltage is measured in the presence of a radioactive ionizing source with leakage current limited to 100 microamperes.

Physical Characteristics

Operating Temperature	-40°C to +125°C
Storage Temperature	-50°C to +155°C
Vibration 10 – 2000 Hz (G ' S MAX)	50g
Shock 11ms. ½ Sine wave (G ' S MAX)	100g
Resonant Frequency (TYP.)	5 KHz
Switching Frequency (MAX.)	200 Hz



Minimum Life Expectancy

Load	5V DC 2mA	5V DC 0.5A	12V DC 10mA	24V DC 10mA	28V DC 100mA
Life	100×10^6	0.5×10^6	10×10^6	2×10^6	0.5×10^6

End of Life Definition

1. Contact resistance above 1 ohm.
2. Failure to open (sticking).