

Reed Switch specifications

Model No: LDW-2050

Features

- The LDW-2050 is a medium-size high power reed switch designed for directly switching power line voltage, i.e. 110VAC or 220VAC.

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.)	2.9	mm
	Glass Length (Max.)	20.0	mm
	Lead Diameter (Nominal)	0.6	mm
	Overall Length (Max.)	56.8	mm

LDW2050

Electrical Characteristics

Contact form		SPST Form A Center gap	
Contact material		Rhodium	
Switching power	(max.)	50 VA	
Switching Current	(max.)	0.7 Amp. DC	0.7 Amp. AC
Carry Current	(max.)	2.0 Amp. DC	2.0 Amp. AC
Switching voltage	(max.)	220 VDC	
Breakdown voltage	(min.)	300 VDC	
Contact resistance	(max.)	100 Miniohms	
Insulation resistance	(min.)	10 ⁹ Ohms	
Contact capacitance	(max.)	0.4 pF	
Operate time including bounce	(typ.)	1.0ms	
Release time	(typ.)	0.2 ms	
Pull in Range		20 – 60 AT	
Drop out		30 – 90%	

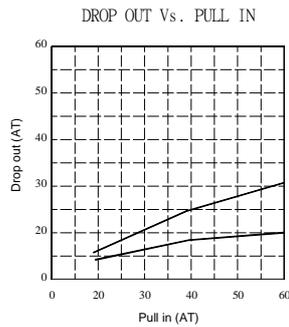
Note: 1. The specification for VA rating may be exceeded for less sensitive (High AT) switches, and should be decreased for very sensitive (Low AT) switches. Specific life testing for a particular load will be run upon request.

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

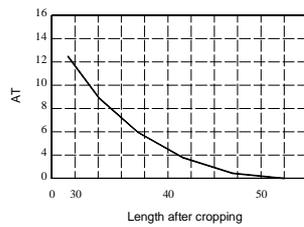
LDW2050

Physical Characteristics

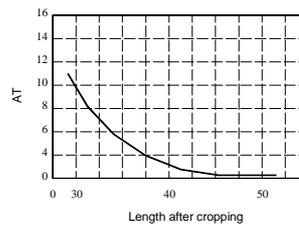
Operating Temperature	-40°C to +125°C
Storage Temperature	-50°C to +155°C
Vibration 10 – 2000 Hz (G ' S MAX)	50g
Shock 11ms. ½ Sine wave (G ' S MAX)	100g
Resonant Frequency (TYP.)	2.5 KHz
Switching Frequency (MAX.)	200 Hz



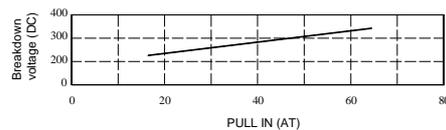
Change in PULL IN Vs. Lead Length
(Increase in PULL IN)



Change in DROP OUT Vs. Lead Length
(Increase in DROP OUT)



Breakdown Voltage Vs. PULL IN (AT)



Minimum Life Expectancy

Load	5VDC 2mA	10VDC 1A	24VDC 2mA	125VDC 80mA	200VDC 250mA	250VDC 200mA
Life	1,000×10 ⁶	3×10 ⁶	3×10 ⁶	5×10 ⁶	0.5×10 ⁶	0.7×10 ⁶

End of Life Definition

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