

磁簧管產品規格 REED SWITCH SPECIFICATION

型名 Type No. BSW-12SN

概要：Feature

BSW-12SN 是小型單接點磁簧管，主要專用於表面粘著使用

The BSW-12SN is a potted dry reed switch.

It is single-pole, single throw (SPST) type, having normally open ruthenium contacts.

The sensor is a double-ended type and may be actuated with an electromagnet, a permanent magnet or a combination of both.

The device is designed for SMD mounting .

用途：Application

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|----------|-----------------------|
| ■ 近接感應 | Proximity Sensor |
| ■ 安全警示感應 | Security Alarm Sensor |
| ■ 溢位感應 | Level Sensor |
| ■ 流量感應 | Flow Sensor |
| ■ 脈衝計數 | Pulse Counter |

電氣特性：Electrical Characteristics

接點形式	Contact form	SPST Form A Center gap
接點材質	Contact material	Ruthenium
開閉功率	Switching power (Max.)	10 W
開閉電流	Switching Current (Max.)	0.5 Amp. DC / 0.5 Amp. AC
通電電流	Carry Current (Max.)	0.5 Amp. DC / 0.5 Amp. AC
開閉電壓	Switching Voltage (Max.)	200 VDC
接點耐壓	Breakdown voltage (Min.)	230 VDC
接觸電阻	Contact resistance (Max.)	150 Milliohms
絕緣電阻	Insulation resistance (Min.)	10 ⁶ Ohms
接點電容	Contact capacitance (Max.)	0.25 pF
動作時間	Operate time including bounce (Typ.)	0.5 Milliseconds
復歸時間	Release time (Typ.)	0.1 Milliseconds
啓動值	Pull in Range	7 – 21 AT
釋放值	Drop out	3 – 16 AT

Notes: (1) 在開閉功率(VA)項目中，高 AT 值產品會超過額定值(10VA)，低 AT 值者會低於額定值。

因此特定負載之壽命試驗必需再確認。

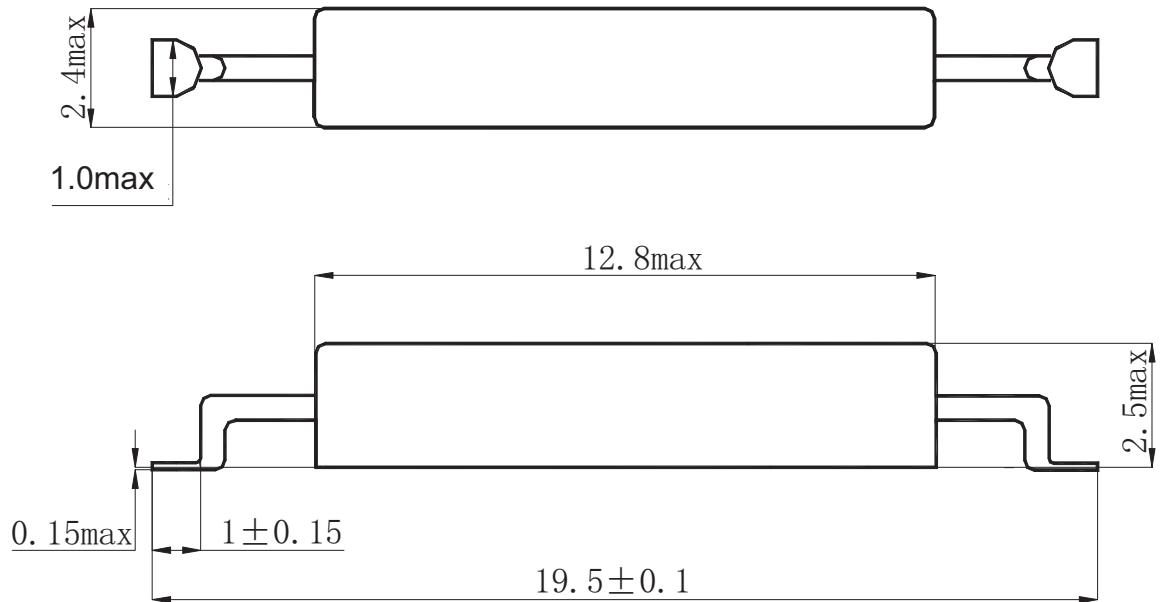
The specification for VA Rating may be exceeded for less sensitive(high AT) switches, and should be decreased for very Sensitive(low AT)Switches. Specific life testing for a particular load will be run upon request.

(2) 接點耐壓是以離子放射裝置測試接點間之漏電流低於 100 μ A 而測得。

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

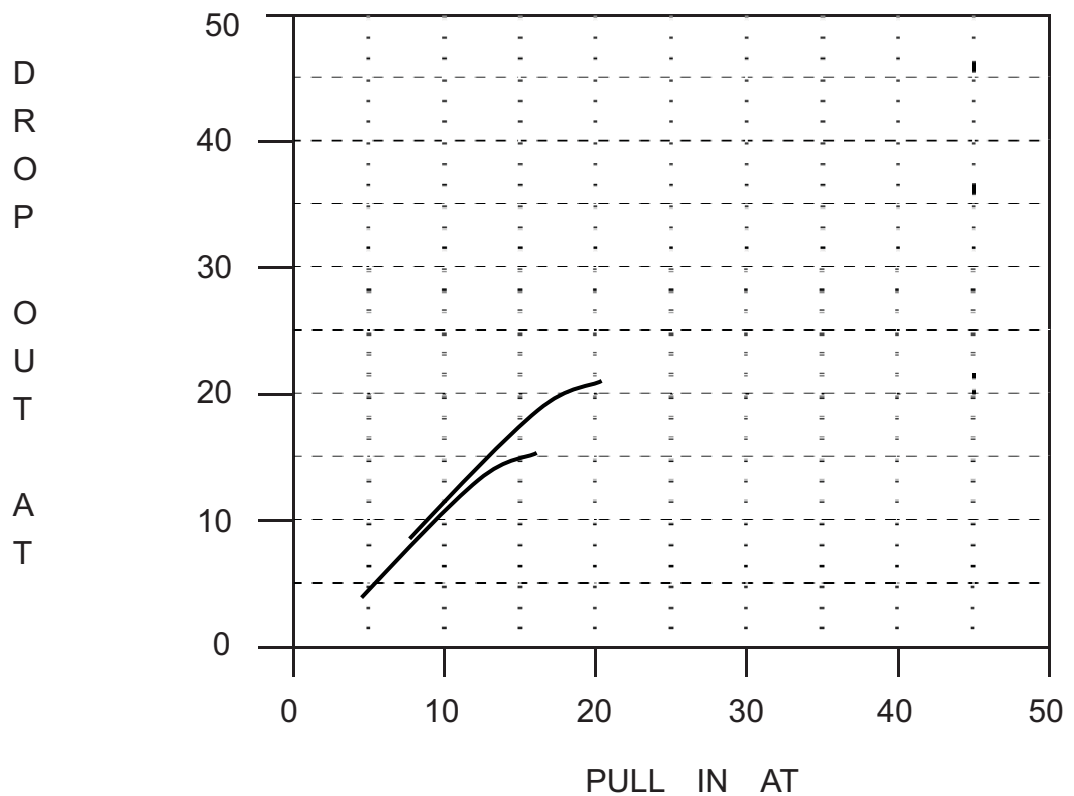
BSW - 12SN REED SWITCH

外型圖 : Outer Dimensions



Unit in mm

啓動值與釋放值之分布 : DROP OUT Vs PULL IN

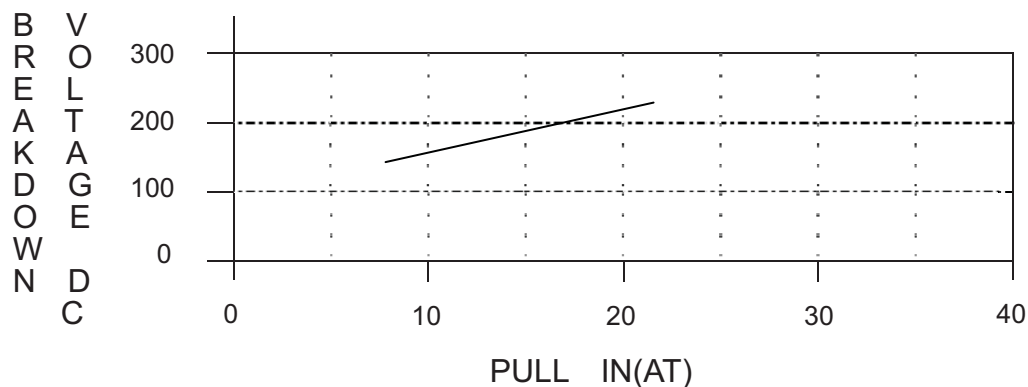


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物理特性 : Physical Characteristics

使用溫度範圍	Operating Temperature	-40 °C to + 80 °C (STD) / +125 °C (High grade)
保存溫度範圍	Storage Temperature	-40 °C to + 125 °C
耐振動性	Vibration 10 – 2000 Hz (G 'S MAX)	10G
耐衝擊性	Shock Resistance 11ms.½ Sine wave (G 'S MAX)	100G
諧振頻率	Resonant Frequency (TYP.)	11 KHZ
使用頻率	Operating Frequency (MAX.)	125 HZ

接點耐壓與啓動值之關係: Breakdown Voltage Vs PULL IN(AT)



各項負載之壽命試驗: MINIMUM LIFE EXPECTANCY

負載 Load	5VDC 100mA	20VDC 500mA
壽命 Life	2×10^7	2×10^7

壽命之定義: END OF LIFE DEFINITION

1. 接觸阻抗大於 1 ohm Contact Resistance above 1 ohm
2. 接點無法釋放 Failure to open (sticking)