

磁簧管產品規格 REED SWITCH SPECIFICATION

型名 Type No. BSW-11SL

概要：Feature

BSW-11SL 是小型單接點磁簧管，主要專用於表面粘著使用
The BSW-11SL is a small single-contact reed switch designed for surface mount technologe system use.

用途：Application

■汽車電子裝置	Automotive electronic devices
■轉速裝置	Rotation and speed Monitoring
■安全系統之門窗開關	Door and Window Contacts for Security System
■通訊設備	Communication equipment
■量測儀器	Measurement equipment

電氣特性：Electrical Characteristics

接點形式	Contact Form	SPST Form A Centre 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.
通電電流	Carry Current (Max.)	1.2 Amp.
開閉電壓	Switching Voltage (Max.)	200 VDC
接點耐壓	Breakdown Voltage (Min.)	250 VDC
接觸阻抗	Contact Resistance (Max.)	100 Milliohms
絕緣阻抗	Insulation Resistance (Min.)	10 ¹² Ohms
接點電容	Contact Capacitance (Max.)	0.3 pF
動作時間	Operate Time Including Bounce (Typ.)	0.6 Milliseconds
復歸時間	Release Time (Typ.)	0.2 Milliseconds
感動值	Pull in Range	8 – 30 AT
開放值	Drop out Range	35 – 90%

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。

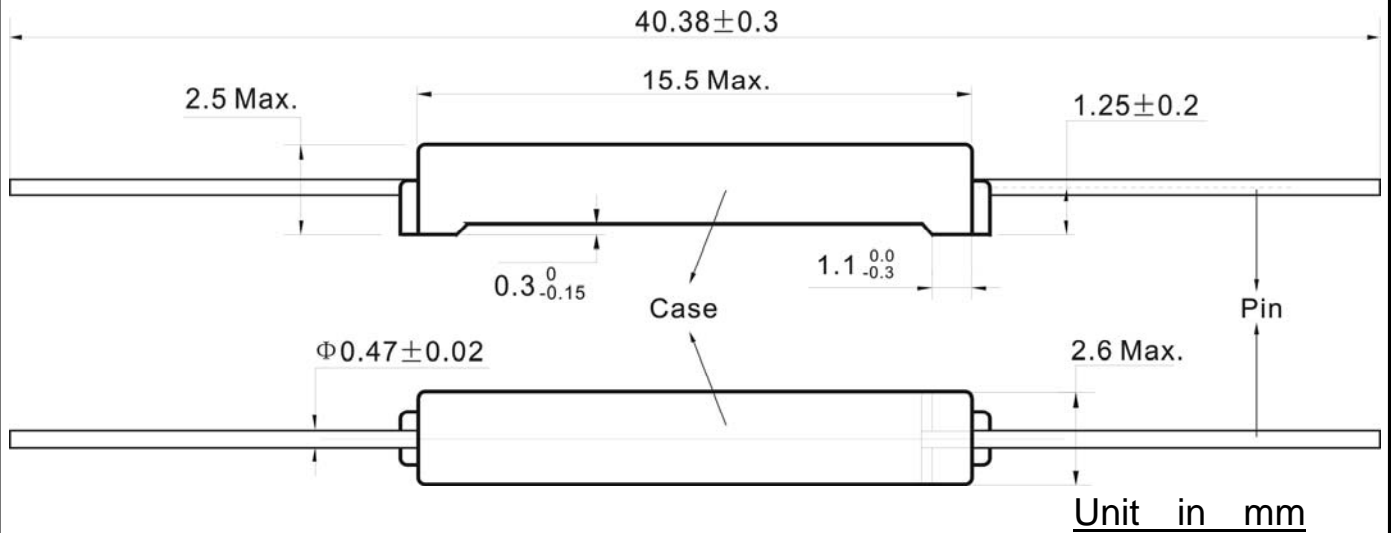
The specification for VA Rating may be exceeded for less sensitive(high AT) switches, and should be decreased for very Sensitive(low AT)Switches. Specific life testing for a particular load will be run upon request.

(2) 表面粘著零件迴焊製程溫度達 230 °C (446 °F) 時不超過 1 分鐘。

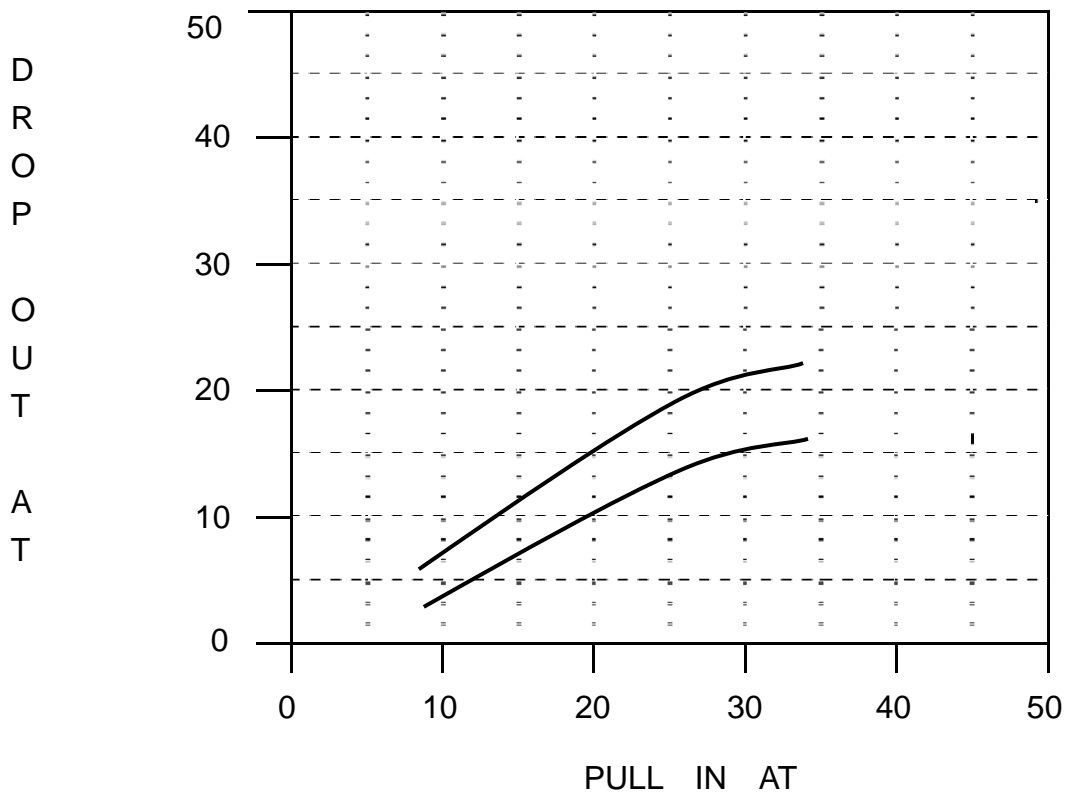
Surface mount component processing temperature 230 °C (446 °F) Max. for 1 minute.

BSW - 11SL REED SWITCH

外型圖 : Outer Dimension



感動值與開放值之分布 : DROP OUT Vs PULL IN

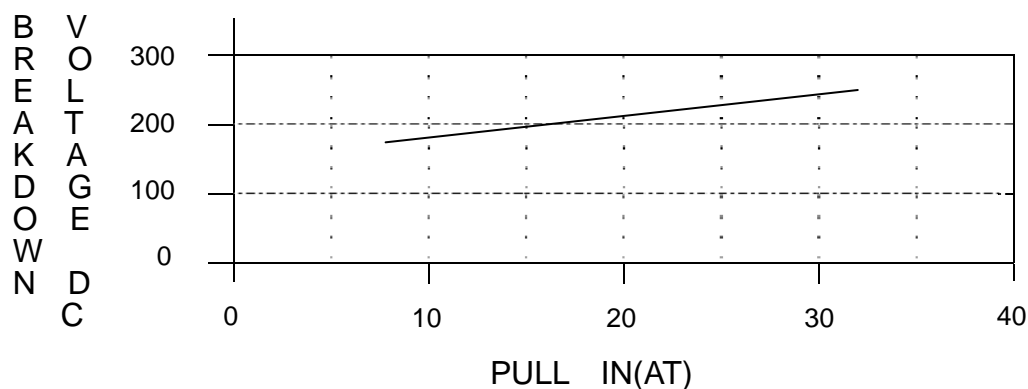


BSW 11SL REED SWITCH

物理特性 : Physical Characteristics

使用溫度範圍	Operating Temperature	-40°C to + 125°C
保存溫度範圍	Storage Temperature	-50°C to + 155°C
耐振動性	Vibration 10 – 2000 Hz (G 'S MAX)	30G
耐衝擊性	Shock Resistance 11ms.½ Sine wave (G 'S MAX)	100G
諧振頻率	Frequency (TYP.)	5 KHZ
開閉頻率	(MAX.)	200 HZ

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



各項負載之壽命試驗: MINIMUM LIFE EXPECTANCY

負載 Load	5VDC 2mA	10VDC 1A	12VDC 10mA	24VDC 10mA	48VDC 100mA	70VDC 80mA
壽命 Life	100×10 ⁶	0.5×10 ⁶	10×10 ⁶	2×10 ⁶	0.5×10 ⁶	0.5×10 ⁶

壽命之定義: END OF LIFE DEFINITION

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