

## 磁簧管產品規格 REED SWITCH SPECIFICATION

### 型名 Type No. BSW-10SM

#### 概要：Feature

BSW-10SM 是小型單接點磁簧管，主要專用於表面粘著使用

The BSW-10SM 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 and is available in three lead configurations.

#### 用途：Application

■ 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 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.)	0.5 Amp.
開閉電壓	Switching Voltage (Max.)	200 VDC ; 140VAC,RMS
接點耐壓	Breakdown Voltage (Min.)	200~230 V
接觸阻抗	Contact Resistance (Max.)	200 Milliohms
絕緣阻抗	Insulation Resistance (Min.)	10 <sup>12</sup> Ohms
接點電容	Contact Capacitance (Max.)	0.3 pF
動作時間	Operate Time Including Bounce (Typ.)	1.0 Milliseconds
復歸時間	Release Time (Typ.)	0.1 Milliseconds
感動值	Pull in Range	10 – 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。

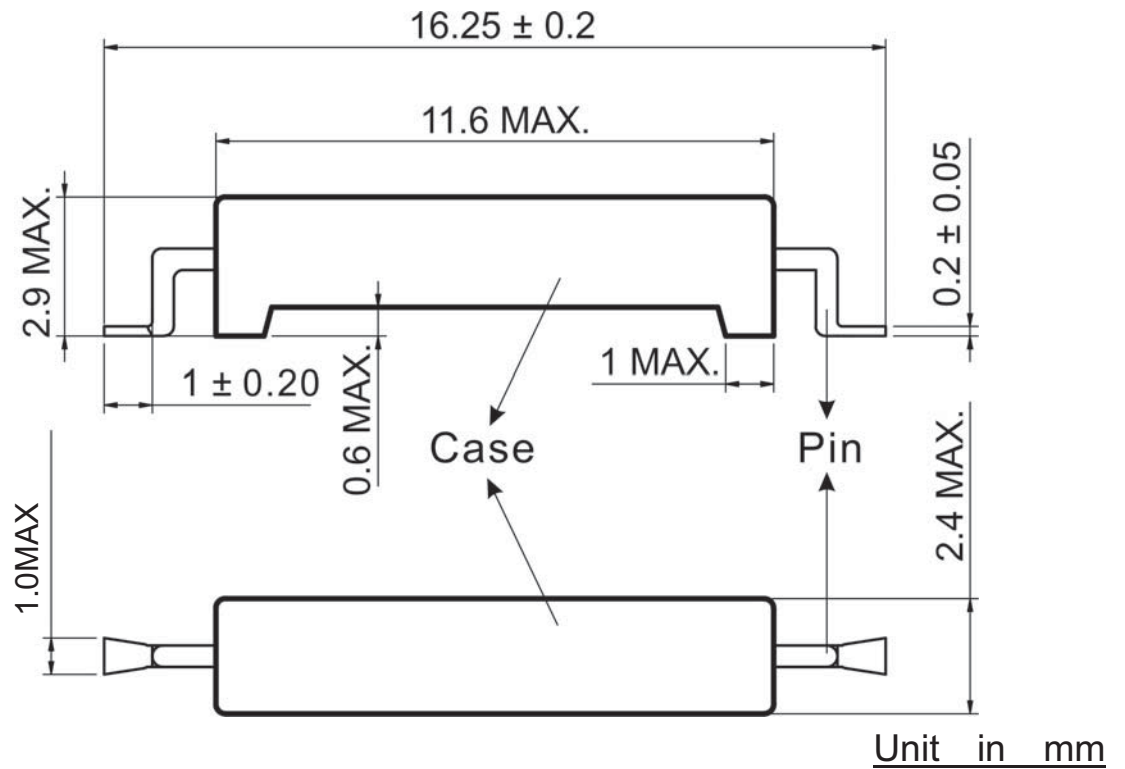
The specification for VA Rating may be exceeded for less sensitive(high AT) switches, and should be decreased for very Sensitive(low AT)Switches. Specific life testing for a particular load will be run upon request.

(2) 表面粘著零件迴焊製程溫度達 250 °C ( 482 °F) 時不超過 1 分鐘。

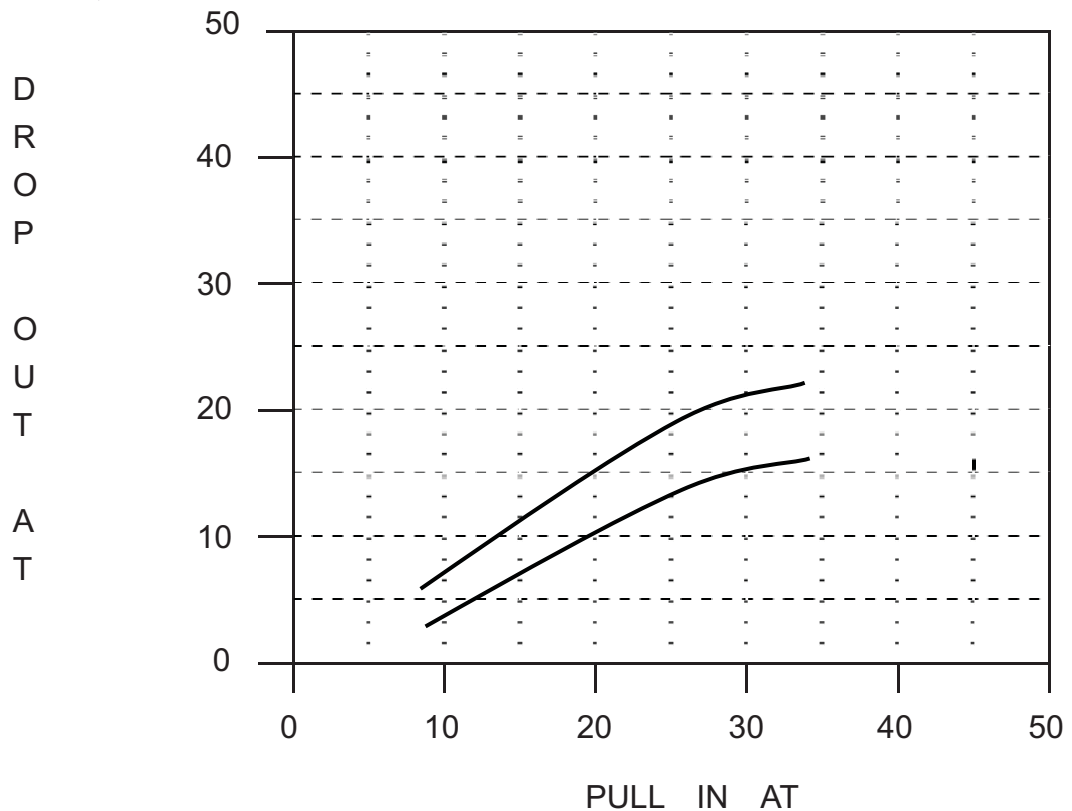
Surface mount component processing temperature 250 °C ( 482 °F) Max. for 1 minute.

## BSW - 10SM REED SWITCH

外型圖 : Outer Dimension



感動值與開放值之分布 : DROP OUT Vs PULL IN



## BSW 10SM 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	-40°C to + 125°C
耐振動性	Vibration 10-2000 Hz (G 'S MAX)	50g
耐衝擊性	Shock Resistance 11ms. ½ Sine wave (G 'S MAX)	100g
階振頻率	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)

