

Size: Ø2.6x5.0mm

1000A

1 Application:

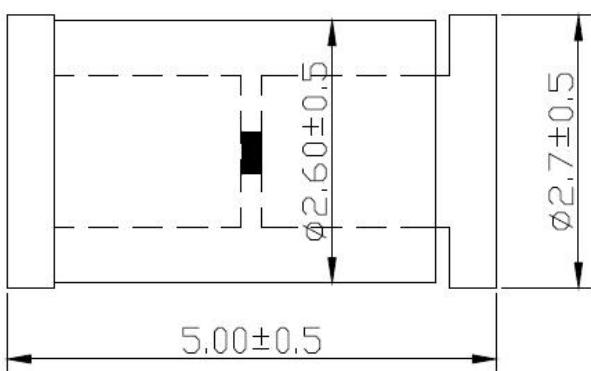
- For instantaneous over-voltage protection to ADSL,ISDN,MODEM,FAX,TEL,Power Supplies,Alarm systems.
- For instantaneous over-voltage protection to RS485,RS232 port, CATV,video transceiver.
- For instantaneous over-voltage protection to ammeter,water meter auto admin system, etc

**2 Features**

- Small capacitance and excellent insulation resistance(100MΩ min).
- Small size,No polarity.No dark effect.
- Low electrode capacitance(1pF max).
- Quick response for electrostatic,surge voltage and low limiting voltage.
- Stable for repeated discharge test conditions.
- Operating temperature: -40°C ~ +85°C. Storage temperature: -40°C ~ +125°C.

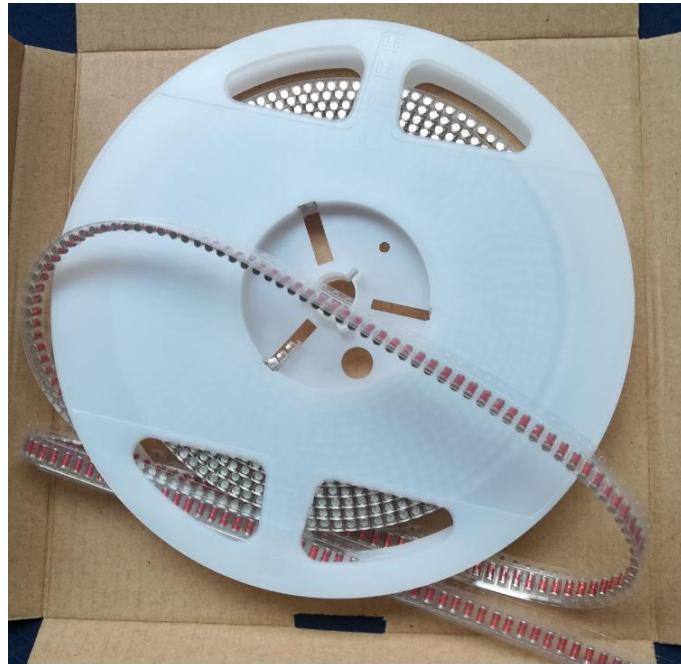
3 Electrical Characteristics

Part Number	DC Spark-Over Voltage Vs(V) Nominal value (min-max)	Insulation Resistance		Capacitance of electrostatic 1KHz-6V(PF)	Surge current capacity 8/20us	Surge Life Test
		Test voltage	IR (MΩ)			
JSE-141N-SMB	140V (98V-182V)	DC50V				
JSE-181N-SMB	180V (126V-234V)					
JSE-201M-SMB	200V (160V-240V)	DC100V				
JSE-301M-SMB	300V (240V-360V)					
JSE-401M-SMB	400V (320V-480V)	DC250V				
JSE-501M-SMB	500V (400V-600V)					
JSE-601M-SMB	600V (480V-720V)	DC400V				
JSE-901M-SMB	900V (750V-1050V)					
JSE-102M-SMB	1000V (800V-1200V)	DC500V				

4 Dimension(Diameter 2.6mm , Length 5.0mm)

5 Marking of colour code:**Fast Delivery Time**

NO

**6 Part Number System (型号构成) :**Example **JSE — 301 M — SMB**

① ② ③ ④

No	Symbols Explain
① Series Name	JSE series
② Nominal DC spark over voltage	The symbol denoting nominal DC spark over voltage shall be expressed by three numerals. The first and second numerals shall represent the significant figures of nominal DC spark over voltage in volts(V), and the third numerals shall represent the number of zeros ,following the significant figures. Example) 301——30×10 ¹ =300
③ Tolerances of DC Spark over Voltage	Tolerances: L — ±15% ; M — ±20% ; N — ±30% ;
④ Glass Tube Size	Dimension :Diameter: φ2.6mm , Length: 5.0mm)

7 Initial Characteristics 基本特性：

项目 Test Item	测试条件 Test Method	规格值 Specification
直流放电电压 DC Spark-Over Voltage Vs(V)	逐渐地增加测量使用直流电压, 即可知其开始电压, 测定电流为一毫安与测定时间最大为一秒 (1sec).(1mA) (Add and measure the DC Voltage gradually Maxto get the discharge threshold voltage. The measuring current is 1mA/1 second max.)	依型号而定 (It depends on each part number.)
内绝缘电阻 Insulation Resistance	在规定的设定直流电压下, 跨在两端引线, 即测量其内绝缘电阻值.(Measure the insulation resistance of two end of leadwire under the specified DC voltage.)	100MΩ或大于 100MΩ (100MΩ min.)
静电电容 Capacitance C(pF)	使用频率 1KHZ 与小于或等于 6V 直流电压之电源, 即测量其静电电容量 Measure the Electrostatic Capacitance under the test condition of 1KHz, DC 6V(max).	1PF 或小于 1PF (1pF max.)

8 Environmental Characteristics(环境试验) :

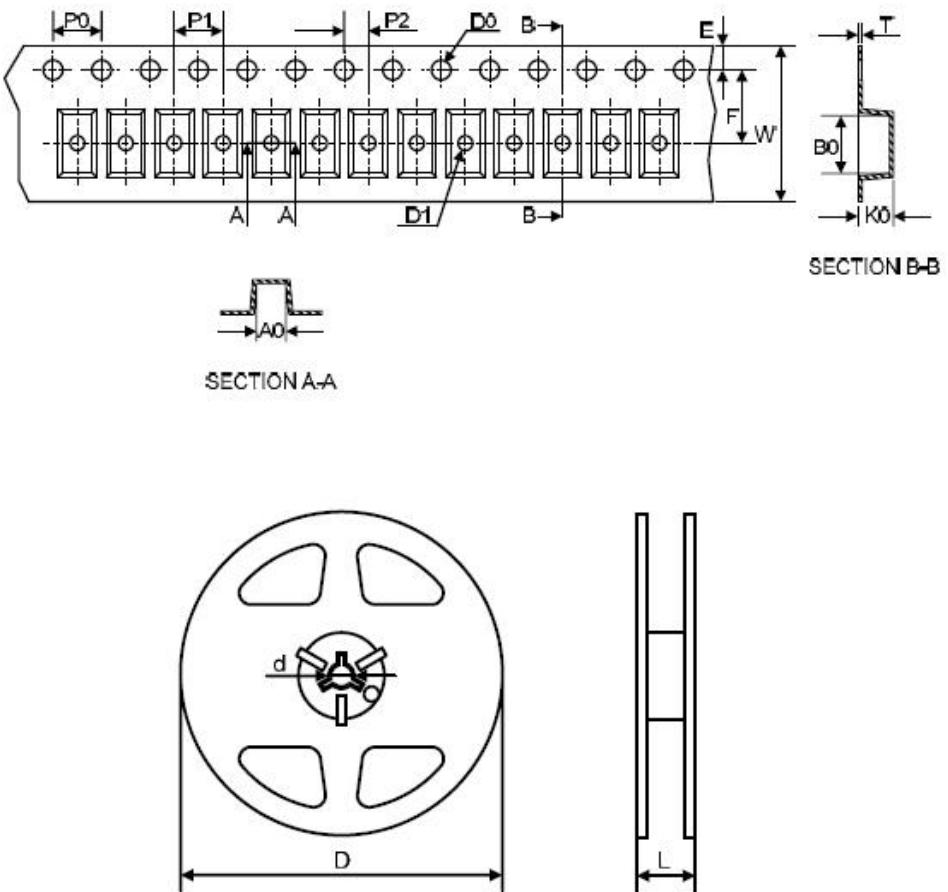
试验项目 Test Item	试验方法 Test Method	性能 Characteristics
耐寒性(依据 JIS C0020) Cold Resistance JIS C0020	放置于 $-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ 之环境中 1000 小时后, 取出置于常温常湿中 4 小时后, 检测直流开始放电电压, 绝缘阻抗, 静电容量及检查外观. After $-40 \pm 3^{\circ}\text{C}$ (1000hrs) / room temp., normal humidity(4 hrs) cycle, measure the properties.	满足各个特性之规格值 Within standard mentioned in Initial Characteristics.
耐热性(依据 JIS C0021) Heat Resistance JIS C0021	放置于 $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ 之环境中 1000 小时后, 取出置于常温常湿中 4 小时后, 检测直流开始放电电压, 绝缘阻抗, 静电容量及检查外观. After $125 \pm 2^{\circ}\text{C}$ (1000hrs) / room temp., normal humidity(4 hrs) cycle, measure the properties.	满足各个特性之规格值 Within standard mentioned in Initial Characteristics.
耐湿性(依据 JIS C0022) Humidity Resistance JIS C0020	放置于 $85^{\circ}\text{C} \pm 2^{\circ}\text{C}$ RH85% 之环境中 1000 小时后, 取出置于常温常湿中 4 小时后, 检测直流开始放电电压, 绝缘阻抗, 静电容量及检查外观. After $85 \pm 2^{\circ}\text{C}$, 85% RH (1000hrs)/room temp., normal humidity (4hrs)cycle, measure the properties.	满足各个特性之规格值 Within standard mentioned in Initial Characteristics.
温度周期(依据 JISC0025) Temperature Cycle Test (JIS C0025)	$-40^{\circ}\text{C} \pm 3^{\circ}\text{C}$ (30 分)~(常温 3 分)~ $125^{\circ}\text{C} \pm 2^{\circ}\text{C}$ (30 分) 为 1 周期, 重复 25 次后, 取出置于常温常湿中 4 小时后, 检测直流开始放电电压, 绝缘阻抗, 静电容量及检查外观. 25 times repetition of cycle $-40 \pm 3^{\circ}\text{C}$ (30 Min.), room temp., (4 Min.), $125 \pm 2^{\circ}\text{C}$ (30 Min.), room temp., normal humidity(4hrs) .	满足各个特性之规格值 Within standard mentioned in Initial Characteristics.

9 Surge Characteristics 突波特性：

试验项目 Test Item	试验方法 Test Method	结果 Result
突波寿命(JSE) Life(JSE)	(Apply a standard impulse voltage (10X700)μsec of 1KV for 5 times with intervals of 30 sec., and then change the polarity of the surge and apply a impulse again. And similarly, apply a impulse voltage((100X1000)μsec) of 1KV. Total apply 24 times. Then measure DC spark-over voltage, IR & Capacitance.)	直流开始放电电压 JSE $\Delta V_s/V_s \leq 30\%$ (DC sparkover voltage JSE: $\Delta V_s/V_s \leq 30\%$)
突波寿命(JSE) Life(JSE)	每 voltage charged in 1500pF condenser and apply the current to the specimen,200 times at 10 seconds of intervals.)	(Insulation Resistance & Capacitance to meet the specified value.Appearance: No cracks or failures .)

10 Packaging:

Symbol	Dimension (mm)
W	12.00±0.20
P0	4.00±0.10
P1	4.00±0.10
P2	2.00±0.10
D0	Φ1.5±0.10
D1	Φ1.5±0.10
E	1.75±0.10
F	5.50±0.05
A0	3.00±0.10
B0	6.00±0.10
K0	3.00±0.10
T	0.30±0.05
D	178.0
d	13.0
L	15.0
Quantity:	1500PCS



The technical drawing illustrates the physical dimensions of the component. Key dimensions include:
- Top View: Total width W = 12.00±0.20 mm, distance between pins P0 = 4.00±0.10 mm, distance between pins P1 = 4.00±0.10 mm, distance between pins P2 = 2.00±0.10 mm, pin diameter D0 = Φ1.5±0.10 mm, pin diameter D1 = Φ1.5±0.10 mm, height E = 1.75±0.10 mm, height F = 5.50±0.05 mm, and distance A0 = 3.00±0.10 mm.
- Side View: Total height T = 0.30±0.05 mm, distance B0 = 6.00±0.10 mm, and distance K0 = 3.00±0.10 mm.
- Cross-Sections:
 - Section A-A: Shows the thickness d = 13.0 mm and the total length L = 15.0 mm.
 - Section B-B: Shows the height E = 1.75±0.10 mm and the width F = 5.50±0.05 mm.

Specifications are subject to change without notice

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