

2-Electrode Gas Discharge Tube SC2E8-800H Axial Leaded 800V DC Spark Over Voltage

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SC2E8-800H
- Minimum Order Quantity: 1000PCS
- Price: Negotiable
- Delivery Time: 5-8 work days



Product Specification

- Key Words: Gas Discharge Tube
- Length: $\phi 8 \times 6\text{mm}$
- Material: Ceceramic
- Use Age: Protection Device
- DC Spark-over Voltage @100V/ μs : $800\text{V} \pm 20\%$
- Max. Spark-over Impulse Voltage @100V/ μs : 1200V
- Max. Spark-over Impulse Voltage @1KV/ μs : 1400V
- Max. Capacitance: 1.5pF
- Nom. Impulse Discharge Current: 20KA
- Highlight: 2-Electrode Gas Discharge Tube,
Gas Discharge Tube 800V



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Product Description

800V DC Spark-over Voltage, SOCA Y 2-Electrode Ceramic Gas Discharge Tube SC2E8-800H, Axial Leaded Devices

DATASHEET: [SC2E8_v91.1.pdf](#)

Working Principle

In parallel on the circuit, when the device does not operate, the resistance value is high ($G\Omega$), low equivalent capacitance can be regarded as open circuit, almost no impact on the circuit. When there is an abnormal pulse, the internal resistance drops instantaneously after reaching the operating voltage value, and the current is released instantaneously. When the abnormal high voltage disappears, it returns to the high resistance state, and the circuit works normally.

Part Number	Marking	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Service Life			
								Nominal Impulse Discharge Current	Max Impulse Discharge Current	Nominal Impulse Discharge Current	Impulse Life
		@100V/S	@100V/ μ s	@1KV/ μ s		@1MHz	@1A	@8/20 μ s $\pm$ 5 times	@8/20 μ s 1 time	@50Hz 1 Sec 10 times	@10/ 1000 μ s 300 times
SC2E8-75H SC2E8-75HL SC2E8-75HSMD	SOCA Y 75H	75V $\pm$ 20%	500V	600V	1 $G\Omega$ (at 25V)	1.5pF	~15V	20KA	25KA	20A	200A
SC2E8-90H SC2E8-90HL SC2E8-90HSMD	SOCA Y 90H	90V $\pm$ 20%	500V	600V	1 $G\Omega$ (at 50V)	1.5pF	~15V	20KA	25KA	20A	200A
SC2E8-150H SC2E8-150HL SC2E8-150HSMD	SOCA Y 150H	150V $\pm$ 20%	500V	600V	1 $G\Omega$ (at 50V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-230H SC2E8-230HL SC2E8-230HSMD	SOCA Y 230H	230V $\pm$ 20%	600V	700V	1 $G\Omega$ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-250H SC2E8-250HL SC2E8-250HSMD	SOCA Y 250H	250V $\pm$ 20%	700V	800V	1 $G\Omega$ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-300H SC2E8-300HL SC2E8-300HSMD	SOCA Y 300H	300V $\pm$ 20%	800V	900V	1 $G\Omega$ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-350H SC2E8-350HL SC2E8-350HSMD	SOCA Y 350H	350V $\pm$ 20%	800V	900V	1 $G\Omega$ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-420H SC2E8-420HL SC2E8-420HSMD	SOCA Y 420H	420V $\pm$ 20%	900V	1000V	1 $G\Omega$ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-470H SC2E8-470HL SC2E8-470HSMD	SOCA Y 470H	470V $\pm$ 20%	900V	1000V	1 $G\Omega$ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-600H SC2E8-600HL SC2E8-600HSMD	SOCA Y 600H	600V $\pm$ 20%	1100V	1200V	1 $G\Omega$ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A

SC2E8-800H SC2E8-800HL SC2E8-800HSMD	SOCAY Y 800H	800V±20 %	1200V	1400V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
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Notes:
1). Terms in accordance with ITU-T K.12 and GB/T 9043-2008
2). At delivery AQL 0.65 level , DIN ISO 2859



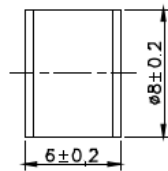
Features

- ◆ Non-Radioactive
- ◆ RoHS compliant
- ◆ High insulation resistance
- ◆ Excellent response to fast rising transients
- ◆ Ultra low capacitance
- ◆ 10~20KA surge capability tested with 8/20μs pulse as defined by IEC 61000-4-5

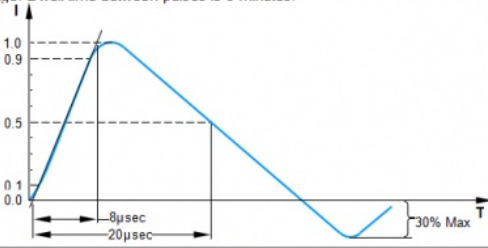
Applications

- ◆ Communication lines and equipment
- ◆ CATV equipment
- ◆ Test equipment
- ◆ Data lines
- ◆ Power supplies
- ◆ Instrumentation circuits
- ◆ Medical electronics
- ◆ ADSL equipment
- ◆ Telecom SLIC protection

Without wire Devices (SC2E8-XXXM/H)



Electrical Rating

Item	Test Condition / Description	Requirement
DC Spark-over Voltage	The voltage is measured with a slowly rate of rise $dv/dt=100V/s$	To meet the specified value
Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with a rise time of $dv/dt=100V/\mu s$ or $1KV/\mu s$	
Insulation Resistance	The resistance of gas tube shall be measured each terminal each other terminal, please see above spec.	
Capacitance	The capacitance of gas tube shall be measured each terminal to each other terminal. Test frequency :1MHz	
Nominal Impulse Discharge Current	The maximum current applying a waveform of $8/20\mu s$ that can be applied across the terminals of the gas tube. One hour after the test is completed, re-testing of the DC spark-over voltage does not exceed $\pm 30\%$ of the nominal DC spark-over voltage. Dwell time between pulses is 3 minutes. 	
Nominal Alternating Discharge Current	Rated RMS value of AC current at 50Hz, 1 sec. 10 times. Intervals: 3min. The DC spark-over voltage does not exceed $\pm 30\%$ of the nominal DC spark-over voltage. $IR > 10^6 ohms$.	

1.FAQ

Q1. Can I have a sample order ?

A: Yes, we welcome sample order to test and check quality. Mixed samples are acceptable.

Q2. What about the lead time?

A: Sample needs 1 days, mass production time needs 1-2 weeks for order quantity more than

Q3. Do you have any MOQ ?

A: MOQ depend on the type of product, 1pc for sample checking is available

Q4. How do you ship the goods and how long does it take to arrive?

A: We usually ship by DHL, UPS, FedEx or TNT. It usually takes 3-5 days to arrive. Airline and sea shipping also optional.

Q5. How to proceed an order ?

A: Firstly let us know your requirements or application.

Secondly We quote according to your requirements or our suggestions.

Thirdly customer confirms the samples and places deposit for formal order.

Fourthly We arrange the production.

Q6: Do you offer guarantee for the products?

A: Yes, we offer 2-5 years warranty to our product

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