20KA SMD Gas Discharge Tube SC2E8-600HSMD Surface Mount 2-Electrode GDT

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL,REACH,RoHS,ISO
- Model Number: SC2E8-600HSMD
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

Product Specification

- Product Name: Gas Discharge Tube
- Size: φ8*6mm
- DC Spark-over Voltage @100V/μs: 600V±20%
- Max. Spark-over Impulse Voltage @100V/μs: 1100V
- Max. Spark-over Impulse Voltage @1KV/μs: 1200V
- Max. Capacitance: 1.5pF
- Nom. Impulse Discharge Current: 20KA
- Storage Temperature: -40°C~+90°C
- Arc Voltage: 20V
- Highlight: **Gas Discharge Tube Surface Mount**, **20KA Gas Discharge Tube**

Product Description

20KA SMD Ceramic Gas Discharge Tube SC2E8-600HSMD, Surface Mount 2-Electrode GDT

Our Product Introduction

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DATASHEET: SC2E8_v91.1.pdf

Description

Gas discharge Tubes (GDT) are classical components for protecting the installations of the telecommunications. It is essential that IT and telecommunications systems -with their high-grade but sensitive electronic circuits - be protected by arresters. They are thus fitted at the input of the power supply system together with varistors and at the connection points to telecommunication lines. They have become equally indispensable for protecting base stations in mobile telephone systems as well as extensive cable television (CATV) networks with their repeaters and distribution systems.

These protective components are also indispensable in other sectors, In AC power transmission systems, they are often used with current-limiting varistors, In customer premises equipment such as DSL modems, WLAN routers, TV sets and cable modems In air-conditioning equipment, the integral black-box concept offers graduated protection by combining arresters with varistors, PTC, diodes and inductor.

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
		@100V/S	@100V/μs	@1KV/μs		@1MHz	@1A	@8/20μs ±5 times	@8/20μs 1 time	@50Hz 1 Sec 10 times	@10/10 300 ti
SC2E8-75H SC2E8-75HL SC2E8-75HSMD	SOCAY 75H	75V±20%	500V	600V	1 GΩ (at 25V)	1.5pF	~15V	20KA	25KA	20A	200A
SC2E8-90H SC2E8-90HL SC2E8-90HSMD	SOCAY 90H	90V±20%	500V	600V	1 GΩ (at 50V)	1.5pF	~15V	20KA	25KA	20A	200A
SC2E8-150H SC2E8-150HL SC2E8-150HSMD	SOCAY 150H	150V±20%	500V	600V	1 GΩ (at 50V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-230H SC2E8-230HL SC2E8-230HSMD	SOCAY 230H	230V±20%	600V	700V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A

SC2E8-250H SC2E8-250HL SC2E8-250HSMD	SOCAY 250H	250V±20%	700V	800V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-300H SC2E8-300HL SC2E8-300HSMD	SOCAY 300H	300V±20%	800V	900V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-350H SC2E8-350HL SC2E8-350HSMD	SOCAY 350H	350V±20%	800V	900V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-420H SC2E8-420HL SC2E8-420HSMD	SOCAY 420H	420V±20%	900V	1000V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-470H SC2E8-470HL SC2E8-470HSMD	SOCAY 470H	470V±20%	900V	1000V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-600H SC2E8-600HL SC2E8-600HSMD	SOCAY 600H	600V±20%	1100V	1200V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A
SC2E8-800H SC2E8-800HL SC2E8-800HSMD	SOCAY 800H	800V±20%	1200V	1400V	1 GΩ (at 100V)	1.5pF	~20V	20KA	25KA	20A	200A

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

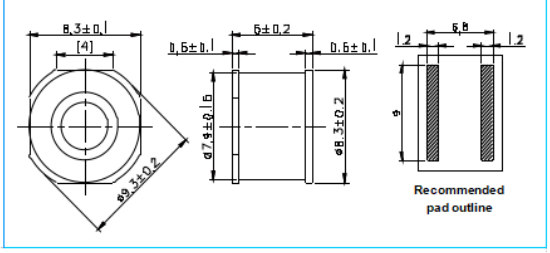
Features

- 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

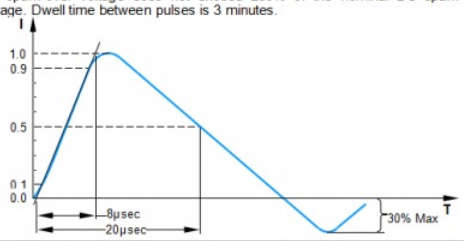
Applications

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

Surface Mount Devices (SC2E8-XXXM/HSMD)



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//μs or 1KV/μs	
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 8/20μs 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 ±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 ±30% of the nominal DC spark-over voltage. IR > 10^8ohms.	

Cautions and Warnings:
Gas discharge tubes (GDT) must not be operated directly in power supply networks.
Gas discharge tubes (GDT) may become hot in case of longer periods of current stress (danger of burning).
Gas discharge tubes (GDT) may be used only within their specified values. In the event of overload, the head contacts may fail or the component may be destroyed.
Damaged Gas discharge tubes (GDT) must not be re-used.

SOCAY® **Shenzhen Socay Electronics Co., Ltd.**

+8618126201429 sylvia@socay.com socaydiode.com

4/F, Block C, HeHengXing Science & Technology Park, 19 MinQing Road, LongHua District, Shenzhen City, GuangDong Province, China