Shenzhen Socay Electronics Co., Ltd. socaydiode.com

800V Axial Leaded Ceramic GDT Tube SC2E8-800ML Classical Components

Basic Information

• Place of Origin: Shenzhen, Guangdong, China

• Brand Name: SOCAY

• Certification: UL,REACH,RoHS,ISO

Model Number: SC2E8-800ML
 Minimum Order Quantity: 1000PCS
 Price: Negotiable
 Delivery Time: 5-8 work days



Product Specification

Other Name: Gas Arrester
 Size: φ8*6mm

• DC Spark-over Voltage 800V±20%

@100V/µs:

 Max. Spark-over Impulse 1200V Voltage @100V/µs:

 Max. Spark-over Impulse 1400V Voltage @1KV/µs:

• Min. Insulation Resistance: 1GΩ (@100V)

• Nom. Impulse Discharge 10KA

Current:

• Max. Impulse Discharge 20KA

Current:

• Storage Temperature: -40°C~+90°C

Highlight: Ceramic GDT Tube, Axial Leaded GDT Tube



Product Description

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DATASHEET: SC2E8_v91.1.pdf

Gas discharge tube (GDT) typical application circuit

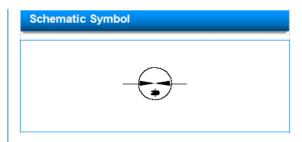
Ceramic gas discharge tubes (GDT) are widely used in communication lines and power line protection of electronic products such as communications, security, and industry. When used in power line protection, ceramic gas discharge tubes (GDT) should

Applied in series with MOV or TVS, as shown in Figure 2. Figure 3 shows the RJ45 interface protection, Figure 4 and Figure 5 show the RS485 interface and BNC respectively.

Two-level interface protection scheme, the first level uses ceramic gas discharge tube.



Part Number	Markin g	Spark- over	Maximum Impulse Spark-over Voltage			Maximum Capacitan	1 -	Service Life			
								Nominal Impulse Discharg e Current	Impulse Discharg e	Nominal Impulse Discharg e Current	Life
		@100V/ S	1 -	@1KV /μs		@1MHz	@1A	@8/20µs ±5 times	@8/20µs 1 time	1 Sec	@10/1000 µs 300 times
SC2E8-420M SC2E8-420ML SC2E8-420MSMD	SOCAY 420M	420V±20%	900V	1000V	1 GΩ (at 100V)	1.5pF	~20V	10KA	20KA	10A	100A
SC2E8-470M SC2E8-470ML SC2E8-470MSMD	SOCAY 470M	470V±20%	900V	1000V	1 GΩ (at 100V)	1.5pF	~20V	10KA	20KA	10A	100A
SC2E8-600M SC2E8-600ML SC2E8-600MSMD	SOCAY 600M	600V±20%	1100V	1200V	1 GΩ (at 100V)	1.5pF	~20V	10KA	20KA	10A	100A
SC2E8-800M SC2E8-800ML SC2E8-800MSMD	SOCAY 800M	800V±20%	1200V	1400V	1 GΩ (at 100V)	1.5pF	~20V	10KA	20KA	10A	100A



Product Characteristics

		ckel-plated with					
Materials	Tinplated wires						
	Surface Mount: Dull Tin-plated						
	SOCAY XXXM/H						
D 1 4 11 11	XXX -Nominal voltage						
Product Marking	M - 10KA						
	H - 20KA						
Glow to Arc Transition Current	< 0.5 Amps						
Glow Voltage	~60 Volts						
Storage and Operational Temperature	-40 to +90°C						
	SC2E8-XXXML	~1.5g					
Weight	SC2E8-XXXHL	~1.6g					
vveignt	SC2E8-XXXM/H	~1.35g					
	SC2E8-XXXM/HSMD	~1.5g					
Climatic category (IEC 60068-1)	40/ 90/ 21						

Main characteristics of gas discharge tube

>DC breakdown voltage: 70~7500 V

>Impact discharge current (8/20 µs): maximum 100 kA

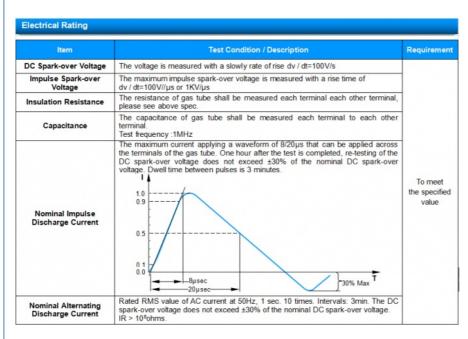
>Impact discharge current (10/350 µs): maximum 100 kA

>Power frequency discharge current (1 s): maximum 20 A

>Power frequency discharge current (0.2 s): maximum 300 A

>Arc voltage: 10~35 V

>Insulation resistance: minimum 1 $G\Omega$ >Capacitance: 0.2 pF minimum



Characteristics of Ceramic Gas Discharge Tube (GDT)

- > The junction capacitance is low, the junction capacitance of most series products does not exceed 2pF, and the junction capacitance of extra-large flow products is in the tens to tens of picofarads;
- > Large flow rate, our ceramic gas discharge tube (GDT) single unit has a flow rate range of 8/20µs from 500A to 100kA;
- > High insulation resistance, generally above $1G\Omega$, not easy to age and has high reliability;
- > DC breakdown voltage range is 75V~6000V, pulse breakdown voltage range is 600V~7800V;
- > Various packages, including SMD devices and plug-in devices, two-terminal devices and three-terminal devices, to meet different application needs;
- > Easy to install;

About SOCAY

we are manufacturer and supplier of NTC ,DIODES ect passive components more than 20 years from China .if you have any request please contact us freely .



+8618126201429

sylvia@socay.com

socaydiode.com

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