SC1812-600CSMD Ceramic GDT Non Radioactive Suitable For Data Lines

Our Product Introduction

Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL,REACH,RoHS,ISO
- Model Number: SC1812-600CSMD
- Minimum Order Quantity: 2500PCS
- Price: Negotiable
- Delivery Time: 5-8 work days

Product Specification

- Product Name: Gas Discharge Tube
- Size: 3.2*2.7*4.5mm
- DC Spark-over Voltage @100V/μs: 600V±20%
- Max. Spark-over Impulse Voltage @100V/μs: 1100V
- Max. Spark-over Impulse Voltage @1KV/μs: 1200V
- Min. Insulation Resistance: 1GΩ (@50V DC)
- Max. Capacitance: 1.0pF
- Arc Voltage @1A: 15V
- Nom. Impulse Discharge Current: 2KA
- Operating Temperature: -40°C~+90°C
- Storage Temperature: -40°C~+90°C
- Highlight: **Ceramic GDT Non Radioactive**, **Data Lines Ceramic GDT**

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Product Description

SOCAY Ceramic Gas Discharge Tube SC1812-600CSMD, Non-Radioactive, Suitable for Data Lines

DATASHEET: SC1812_v2106.1.pdf

Descriptions:

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.

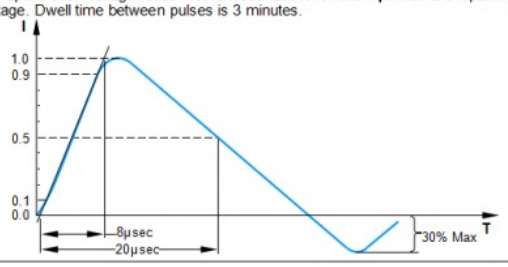
The 1812 series GDT offers high surge ratings in a miniature package. It's designed for surface mounting on PCB with small size 4.5x3.2x2.7mm. Low insertion loss is perfectly suited to broadband equipment applications. The capacitance does not vary with voltage, and will not cause operational problems with ADSL2+, where capacitance variation across Tip and Ring is undesirable. These devices are extremely robust and are able to divert a 500A pulse in a miniature package 1812 without destruction.

Part Number	DC Spark-over Voltage	Maximum Impulse Spark-over Voltage		Minimum Insulation Resistance	Maximum Capacitance	Arc Voltage	Nominal Impulse Discharge Current
	@100V/S	@100V/μs	@1KV/μs		@1MHz	@1A	@8/20μs ±5 times
SC1812-600CSMD	600V±20%	1100V	1200V	1 GΩ (at 100V DC)	1.0pF	~15V	2 KA
Notes: Terms in accordance with ITU-T K.12 and GB/T 9043-2008 At delivery AQL 0.65 level , DIN ISO 2859							

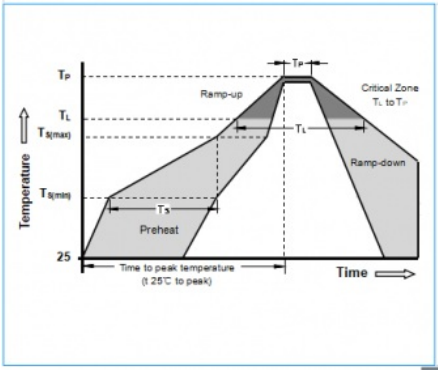
Features:

Non-Radioactive
RoHS compliant
Ultra low capacitance (<1.0 pF)
UL recognized
Excellent response to fast rising transients
2KA surge capability tested with 8/20μs

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. 	

Recommended soldering profile



Reflow Condition		Pb - Free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150 °C
	-Temperature Max ($T_{s(max)}$)	200 °C
	- Time (min to max) (t_s)	60 -180 Seconds
Average ramp up rate (Liquidus Temp T_L) to peak		3°C/second max
$T_{S(max)}$ to TL - Ramp-up Rate		5°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217 °C
	- Time (min to max) (t_s)	60 -150 Seconds
Peak Temperature (T_P)		260 +0/-5°C
Time within 5°C of actual peak Temperature (t_p)		10 - 30 Seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_P)		8 minutes Max
Do not exceed		260°C

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