

SE Series



Agency Approvals

AGENCY	AGENCY FILE NUMBER
	E128662

2 Electrode GDT Graphical Symbol



Additional Information



Datasheet



Resources



Samples

Description

Littelfuse SE series GDT offers high surge ratings in a miniature package. It's designed for surface mounting on PCB with small size 3.2x1.6x1.6mm. 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-600A pulse in a miniature package 1206 without destruction.

Features

- RoHS compliant and Lead-free
- GHz working frequency
- Excellent stability on multiple pulse duty cycle
- Excellent response to fast rising transients.
- Ultra Low Insertion Loss
- 0.5-0.6KA surge capability tested with 8/20 μ S pulse as defined by IEC 61000-4-5
- Ultra small devices offered in a variety of mounting lead forms
- Non-Radioactive
- Low capacitance (<0.5pF)
- Voltage Ranges 140V to 500V
- UL recognized
- Conforms to ITU-T K12, IEC 1000-4-5
- Square Outline

Applications

- Communication equipment
- CATV equipment
- Test equipment
- Data lines
- Power supplies
- Telecom SLIC protection
- Broadband equipment
- ADSL equipment, including ADSL2+
- XDSL equipment
- Satellite and CATV equipment
- General telecom equipment

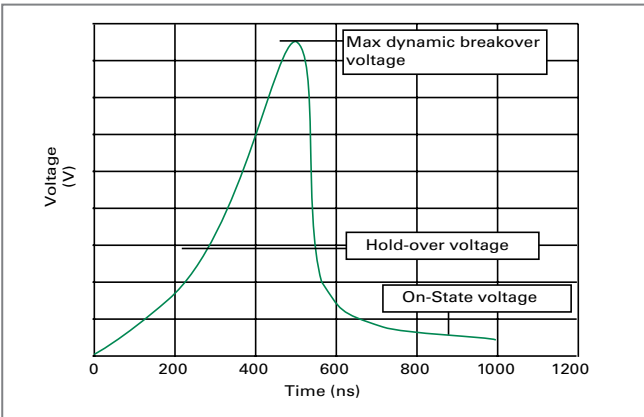
Electrical Characteristics

Part Number	Device Specifications (at 25°C)						Life Ratings					
	DC Breakdown in Volts (@100V/s)			Impulse Breakdown in Volts (@100V/μs)	Impulse Breakdown In Volts (@1 Kv/μsec)	Insulation Resistance	Capacitance (@1MHz)	Arc Voltage (@1A)	Glow to Arc Transition Current	Glow Voltage	Nominal Impulse Discharge Current (x10 @3/20μs)	Nominal Impulse Discharge Current (x10 @5/320μs)
	MIN	TYP	MAX	MAX		MIN	MAX					
SE140	98	140	182	800	900	>1GΩ (at 100VDC)	<0.5 pf	~10 V	<1.0 A	~60 V	0.5 kA	150 A
SE200	140	200	260	700	1100		<0.3 pf					
SE230	172	230	276	600	800		<0.5 pf					
SE350	265	350	495	900	1150		<0.5 pf					
SE470	329	470	611	1050	1200		<0.3 pf					
SE500	400	500	600	1050	1200		<0.3 pf					

Product Characteristics

Materials	Device Tin Plated 17.5±12.5 Microns Construction Ceramic Insulator.
Storage and Operational Temperature	-40 to +90 °C

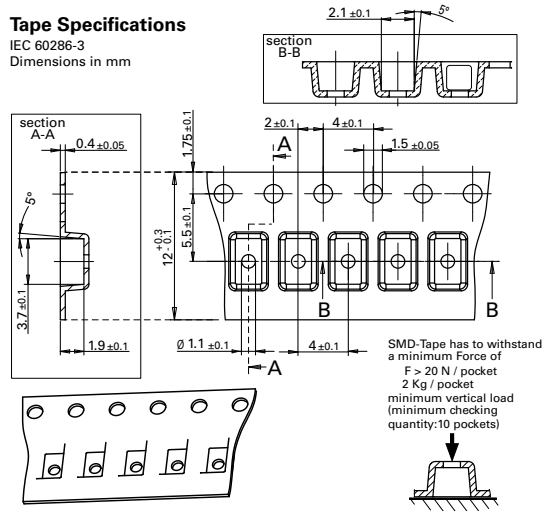
Voltage vs. Time Characteristic



Tape and Reel Dimensions (IEC 60286-3, dimension in mm)

Tape Specifications

IEC 60286-3
Dimensions in mm



Reel Specifications

IEC 60286-3
Dimensions in mm

