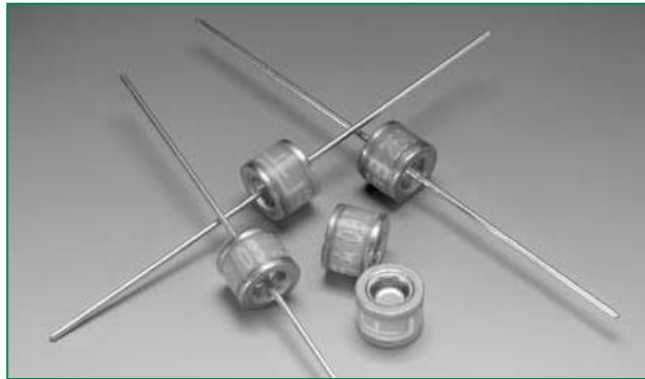


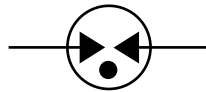
RoHS SL1011A Series Gas Plasma Arrester



Agency Approvals

AGENCY	AGENCY FILE NUMBER
	E128662

2 Electrode GDT Graphical Symbol



Description

The SL1011A series provides high levels of protection against fast rising transients in the 100V/μs to 1kV/μs range usually caused by lightning disturbances.

The SL1011A series also features ultra low capacitance (typically 1pF or less) making them ideal for the protection of high-speed transmission equipment. These devices are extremely robust and are able to divert a 5,000A pulse without destruction.

Features

- RoHS compliant
- Low insertion loss
- Excellent response to fast rising transients.
- Ultra low capacitance.
- 5KA surge capability tested with 8/20μs pulse as defined by IEC 61000-4-5
- 20,000 A single shot surge capability tested with 8/20μs pulse as defined by IEC 61000-4-5

Applications

- Broadband equipment.
- ADSL equipment.
- XDSL equipment.
- Satellite and CATV equipment.
- General telecom equipment.

Electrical Characteristics

Part Number*	DC Breakover Voltage @ 100 V/s Volts (V _{BR})			MAX Dynamic Breakover Voltage @ 100 V/μs ¹ Volts (V _{BR})	AC Discharge Current ² Volts	Max Repetitive Impulse Current ³ kAmps	Max Single Impulse Current		Leakage Current ⁴ nAmps	Holdover Voltage ⁵ Volts
	MIN	NOM	MAX				8/20 μs kAmps	10/350 μs kAmps		
SL1011A075	60	75	90	500	10	10	20	2.5	50	50
SL1011A090	72	90	108	500	10	10	20	2.5	50	50
SL1011A145	116	145	174	500	10	10	20	2.5	50	50
SL1011A150	120	150	180	500	10	10	20	2.5	50	50
SL1011A230	184	230	276	550	10	10	20	2.5	100	135
SL1011A250	200	250	300	600	10	10	20	2.5	100	135
SL1011A260	210	260	310	600	10	10	20	2.5	100	135
SL1011A350	280	350	420	800	10	10	20	2.5	100	135
SL1011A400	320	400	480	850	10	10	20	2.5	100	135
SL1011A470	376	470	564	1000	10	10	20	2.5	100	135
SL1011A500	400	500	500	1100	10	10	20	2.5	100	135
SL1011A600	480	600	720	1200	10	10	20	2.5	100	135

NOTES:

*Max capacitance is 1.5 pF, measured at 1 MHz, zero volt bias

1. Comparable to the silicon measurement Switching Voltage (Vs)

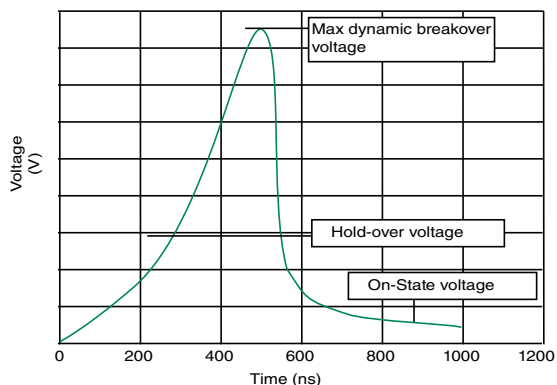
2. 10 shots, AC 60Hz, 1s duration

3. 10 shots, 8/20μs waveform per IEC 61000-4-5

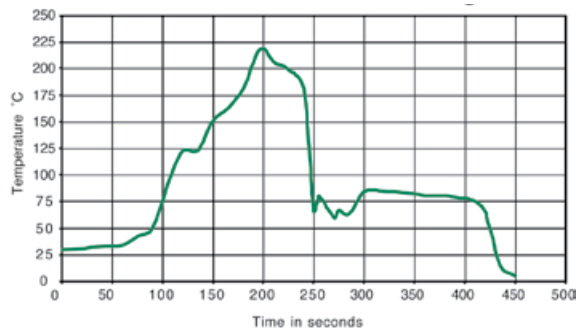
4. Measured at 100V, except 90VDC devices which are measured at 50V

5. Tested according to ITU-T Rec. K.12

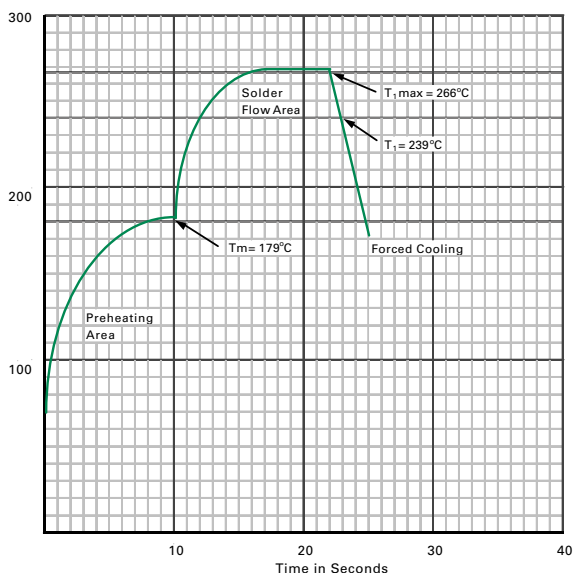
Voltage vs. Time Characteristic



Profile for Reflow Soldering



Profile for Wave Soldering



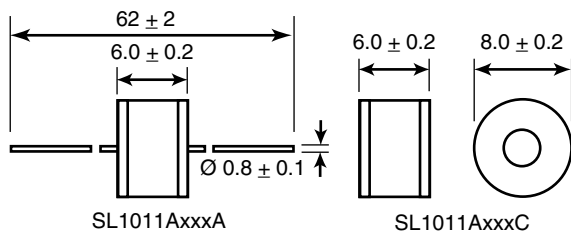
$T_1 \text{ max}$ = Maximum Tab Temperature = 266°C
 T_1 = Flow Temperature = 239°C
 T_m = Melting Point of Solder = 179°C
 T_{amb} = Ambient Temperature = 25°C

Maximum permissible rate of temperature change = $^{\circ}\text{C} / \text{sec}$

Physical Specifications:

Weight	1.5g (0.053 oz.)
Materials:	Core: Dull tin based on nickel Leaded device core: nickel plating Lead wire: Hot dip tin
Device Marking:	Littelfuse 'LF' mark, voltage and date code.

Dimensions



All dimensions in mm

Part Numbering System

SL 1011 A
 Voltage
 Pin Configuration
 A = Leaded
 C = Core