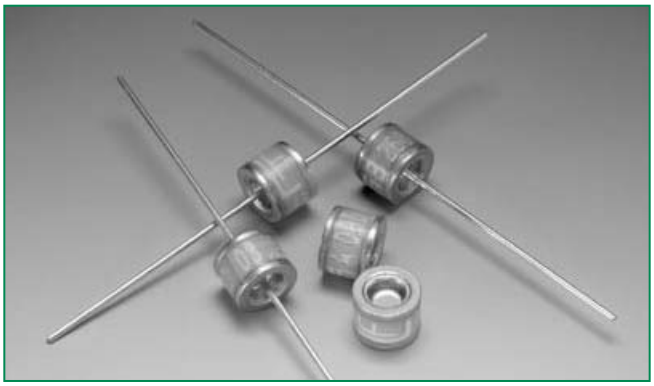
SL1011B Series Gas Plasma Arrester



Description

The SL1011B Series provides high levels of protection against fast rising transients in the 100V/µs to 1kV/µs range usually caused by lightning disturbances.

The SL1011B 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 10,000A pulse without destruction.

Features

- RoHS compliant
- Low insertion loss
- Excellent response to fast rising transients.
- Ultra low capacitance.
- 10KA surge capability tested with 8/20µs pulse as defined by IEC 61000-4-5
- 10,000 A single shot surge capability tested with 8/20µs pulse as defined by IEC 61000-4-5

Agency Approvals

AGENCY	AGENCY FILE NUMBER
	E128662

2 Electrode GDT Graphical Symbol



Applications

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

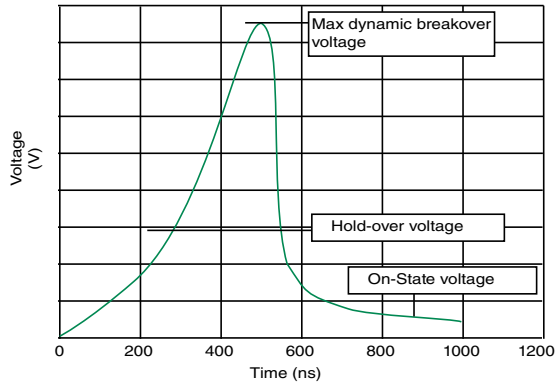
Electrical Characteristics

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		
SL1011B075	60	75	90	500	10	10	20	2.5	50	50
SL1011B090	72	90	108	500	10	10	20	2.5	50	50
SL1011B145	116	145	174	500	10	10	20	2.5	50	50
SL1011B150	120	150	180	500	10	10	20	2.5	50	50
SL1011B230	184	230	276	550	10	10	20	2.5	100	135
SL1011B250	200	250	300	600	10	10	20	2.5	100	135
SL1011B260	210	260	310	600	10	10	20	2.5	100	135
SL1011B350	280	350	420	800	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 wich are measured at 50V
5. Tested according to ITU-T Rec. K.12

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Specifications are subject to change without notice.
Refer to www.littelfuse.com/series/SL1002B.html for current information.

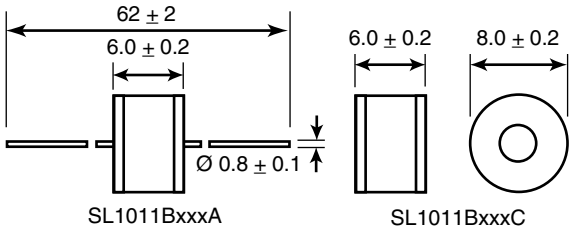
Voltage vs. Time Characteristic



Physical Specifications:

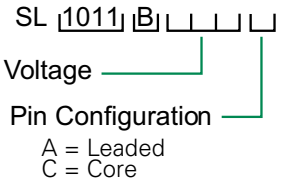
Weight	1.5g (0.053 oz.)
Materials:	Core: Dull tin based on nickel Leaded device core: nickel plating Lead wire: Hot dip tin
Device Marking:	Littelfuse 'LF' mark, voltage and date code.

Dimensions

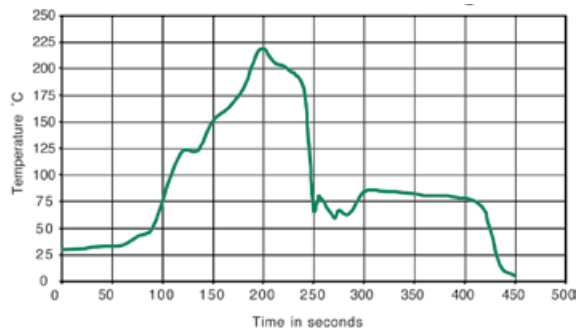


All dimensions in mm

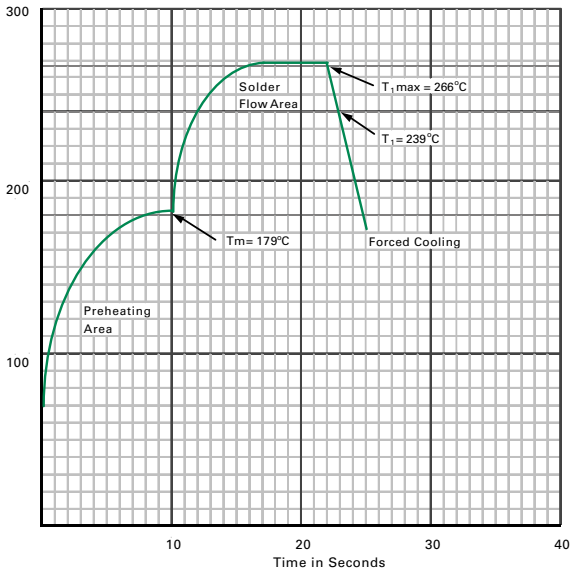
Part Numbering System



Profile for Reflow Soldering



Profile for Wave Soldering



T_1 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 permissable rate of temperature change = °C / sec

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