

Gas Discharge Tubes

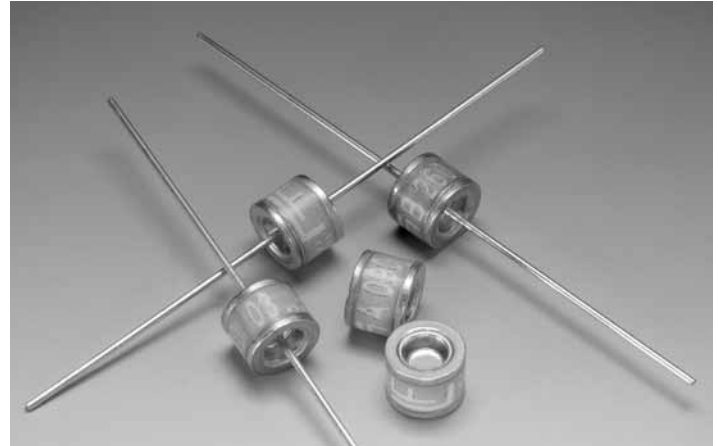
High Performance Beta Range

RoHS Greentube™ SL1011B Series Gas Plasma Arrester

The SL1011B series offers high levels of performance on fast rising transients in the domain of 100V/μs to 1KV/μs, which are those most likely from induced 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.

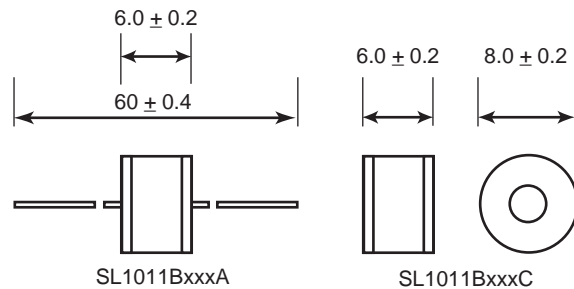
FEATURES

- **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



Applications:

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



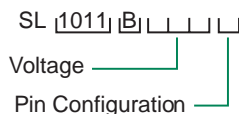
All dimensions in mm



2 ELECTRODE GDT

GRAPHICAL SYMBOL

ORDERING INFORMATION



- A = Leaded
- C = Core

Mechanical Specifications:

- Weight:** 2.7g (0.095 oz.)
- Materials:** Electrode Base: Nickel Iron Alloy
Electrode Plating: Bright Sn
Body: Ceramic
- Device Marking:** Littelfuse 'LF' marking, Voltage and date code.

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LITTELFUSE 2 TERMINAL ARRESTER SERIES
TOTALLY NON-RADIOACTIVE, UL RECOGNIZED

Part Number	DC Voltage @ 100V/sec (V)	DC Breakover Voltage Min-Max (V)	Max Dynamic Breakover Voltage @ 100V/μs ² (V)	Alternating Discharge Current (A)	Max Repetitive Impulse Discharge Current ¹ (kA)	Max Single Impulse Discharge Current 8/20μs (kA)	Max Single Impulse Discharge Current 10/350μs (kA)
SL1011B075	75	60-90	500	10	10	20	2.5
SL1011B090	90	70-120	500	10	10	20	2.5
SL1011B145	145	116-174	500	10	10	20	2.5
SL1011B150	150	120-180	500	10	10	20	2.5
SL1011B230	230	184-276	375	10	10	20	2.5
SL1011B250	250	200-300	400	10	10	20	2.5
SL1011B260	260	210-310	420	10	10	20	2.5
SL1011B350	350	280-420	500	10	10	20	2.5

(1) 10 shots, 8/20μs waveform.

(2) 10 shots, A.C. 60 Hz, 1 sec duration.

Note: Other outlines available on request.

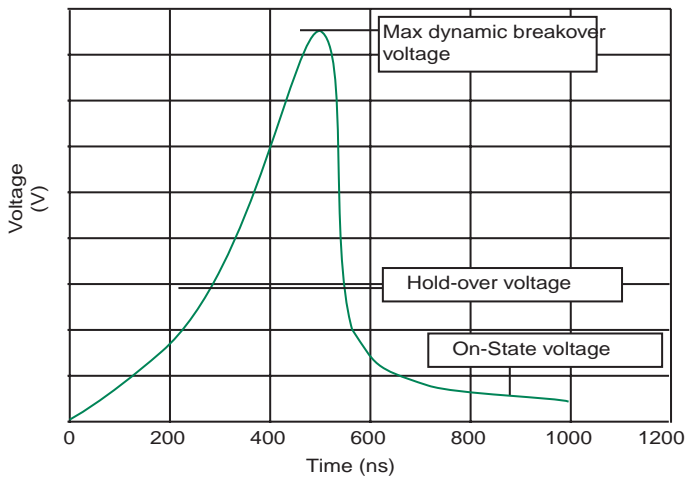
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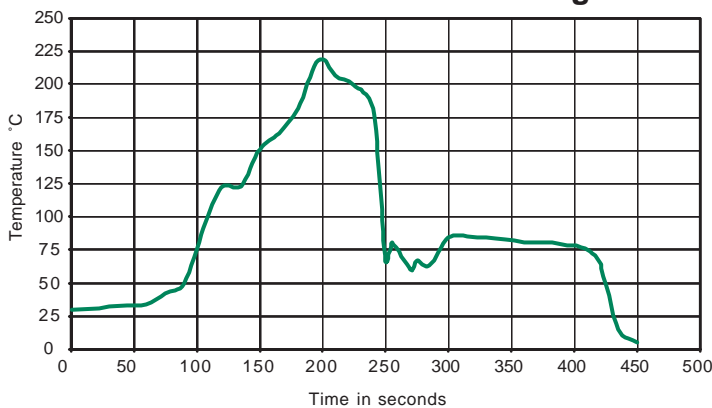
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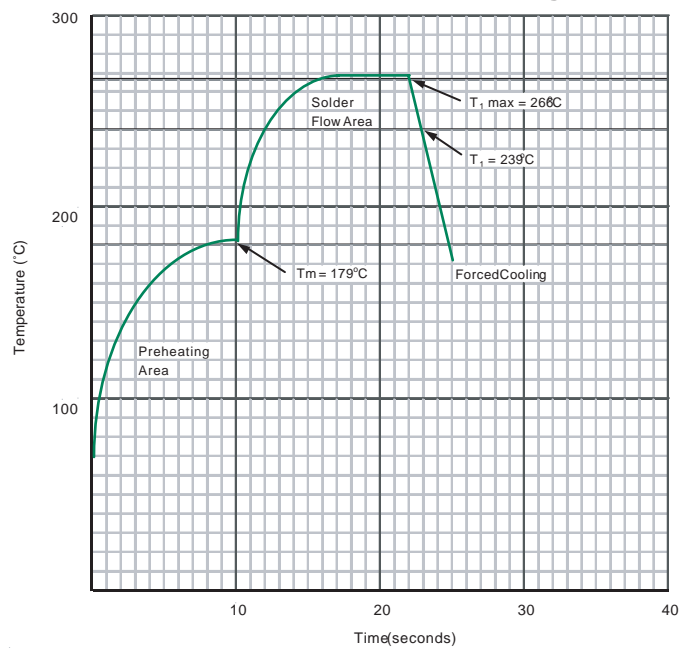
Voltage vs Time Characteristic



Profile for reflow soldering



Profile for wave soldering



Notes:

$T_1 \text{ max}$ = Maximum Tab Temperature = 266°C

T_1 = Flow Temperature of Solder = 239°C

T_m = Melting Point of Solder = 179°C

T_{amb} = 25°C

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