RoHS Greentube™ SL1024B Series Gas Plasma Arresters

The SL1024B series offers high levels of current handling on fast rising transients created by induced Lightning disturbances. These devices are extremely robust and are able to divert pulses of 20,000 Amps. The SL1024B also features ultra low capacitance (typically 1pF or less) making them ideal for the protection of high-speed transmission equipment.

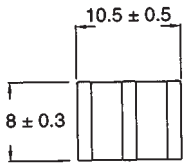


FEATURES

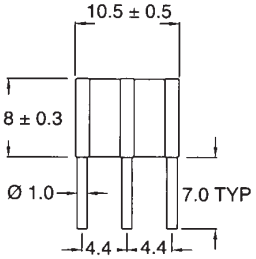
- RoHS compliant except 'RS' suffix
- Low insertion loss
- Excellent response to fast rising transients.
- Ultra low capacitance.
- 20KA surge capability tested with 8/20µs pulse as defined by IEC 61000-4-5
- Available with thermal failsafe option (add 'F' or 'S' suffix to part number)

Applications:

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

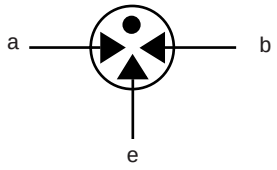


1) Standard Core = C
SL1024B xxxC



2) 4.4 Leg Pitch = R
SL1024B xxxR

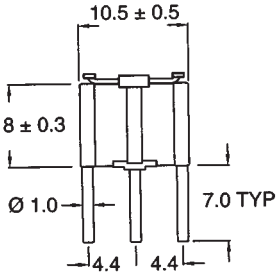
All dimensions in mm



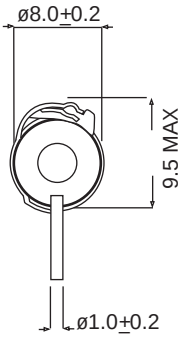
3 ELECTRODE GDT

a=TIP
b=RING
e=GROUND
(centre electrode)

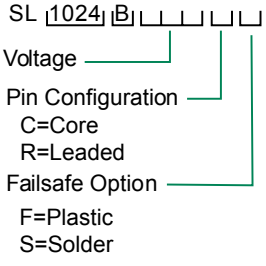
GRAPHICAL SYMBOL



3) as above with wrap failsafe = RF
SL1024B xxxRF



ORDERING INFORMATION



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. Red.

RoHS Pb Greentube™ SL1024B Series Gas Plasma Arresters

LITTELFUSE 3 TERMINAL ARRESTER SERIES
TOTALLY NON-RADIOACTIVE, UL RECOGNIZED

Part Number	DC Voltage (V)	DC Breakover Voltage Min-Max[7] @ 100V/sec (V)	Max Dynamic Breakover Voltage @ 100/µs (V)	Alternating Discharge Current[1,3] (A)	Alternating Discharge Current[5,3] (A)	Max Repetitive Impulse Discharge Current 8/20µs[1,4] (kA)	Max Single Impulse Discharge Current 8/20µs[1,6] (kA)	Max Single Impulse Discharge Current 10/350µs[5,2] (kA)
SL1024B090	90	70-120	600	20	10	20	40	2.5
SL1024B145	145	116-174	500	20	10	20	40	2.5
SL1024B150	150	120-180	500	20	10	20	40	2.5
SL1024B230	230	184-276	350	20	10	20	40	2.5
SL1024B250	250	200-300	400	20	10	20	40	2.5
SL1024B260	260	210-310	420	20	10	20	40	2.5
SL1024B300	300	240-360	450	20	10	20	40	2.5
SL1024B350	350	280-420	500	20	10	20	40	2.5
SL1024B400	400	320-480	600	20	10	20	40	2.5
SL1024B420	420	345-500	650	20	10	20	40	2.5
SL1024B450	450	360-540	650	20	10	20	40	2.5
SL1024B500	500	400-500	700	20	10	20	40	2.5

(1) Total current through centre (ground) electrode, both line electrodes pulsed simultaneously; half value through respective line terminal to ground.

(2) 100 amps, 10/1000µS pulse

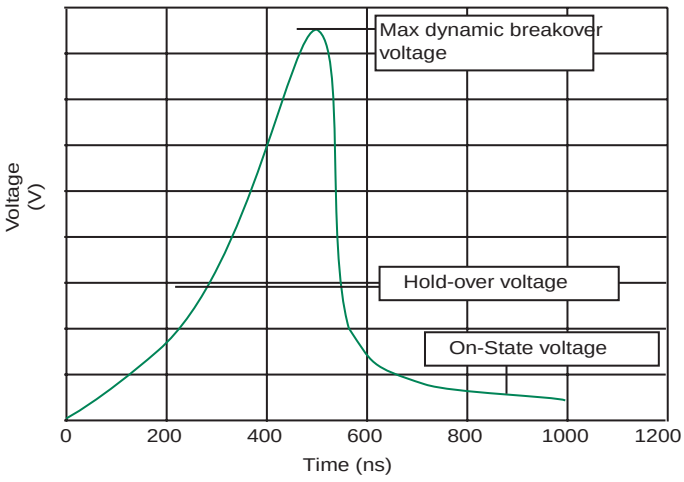
(3) 10 shots, A.C. 60 Hz, 1sec. Duration.

(4) 10 shots, 8/20µS waveform

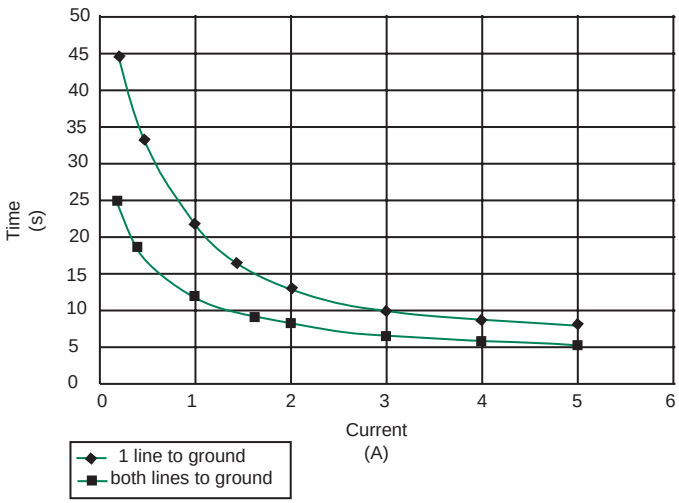
(5) either end (line) electrode to centre (ground) electrode

(6) Applies to 'C' option devices mounted in a suitable connector with high pressure contacts.

Voltage vs Time Characteristic

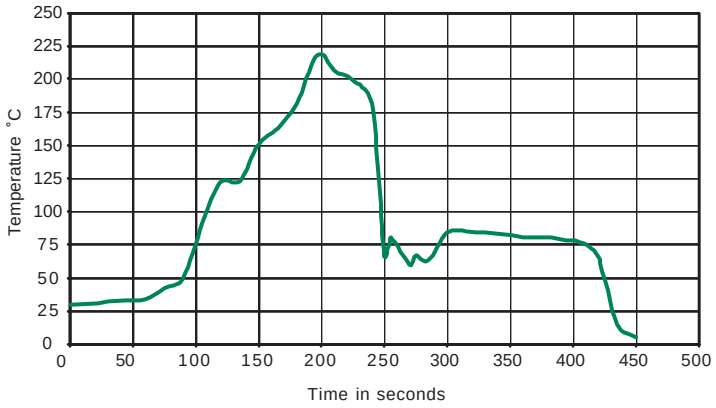


Time vs. Current for Failsafe

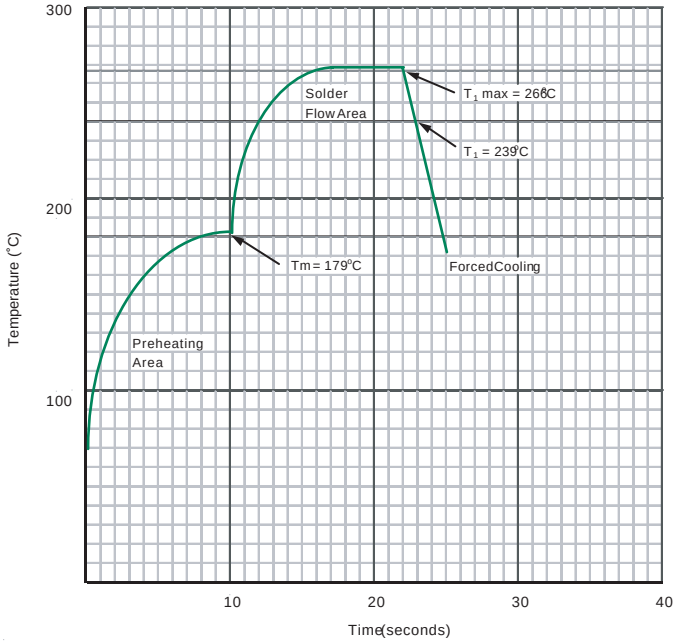


RoHS Greentube™ SL1024B Series Gas Plasma Arresters

Profile for reflow soldering



Profile for wave soldering



Notes:

T_1 max = Maximum Tab Temperature = 266°C
T_1 = Flow Tempearture of Solder = 239°C
Tm = Melting Point of Solder = 179°C
Tamb = 25°C

1. Maximum permissible rate of temperature change = °C / sec
2. Not for RF style devices