

Gas Discharge Tubes

Heavy Duty Delta Range

RoHS Greentube™ SL1026 Series Gas Plasma Arresters

The SL1026 series is a heavy-duty transient suppresser using Gas Plasma technology. In response to a transient voltage which exceeds the fixed breakover voltage (selected according to part number) the device changes from a very high impedance state to a low impedance state, there by conducting harmful current away from the protected system. The design is optimized for the protection of electrical and electronic equipment employed in Railway systems: carefully designed geometry ensures the device does not become a short circuit in the event of a failure due to conditions and events beyond the design criteria. An electrical mounting clip (PN SL1053) is available to aid mounting and connection. A mounting plate (PN SL 1056) is also available which accepts 10 SL1053's. Mounting of the clips to the plate provides a common ground connection; the plate can then be connected to a suitable ground via the screw terminal.

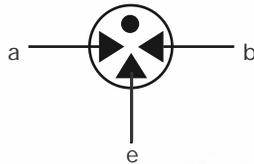


FEATURES

- RoHS compliant
- 55 kA surge capability (single shot) tested with 8/20µS pulse as defined by IEC 61000-4-5
- 40 kA surge capability (repetitive)
- Will protect against Trapezoidal waveforms as specified in RIA 12.
- Will protect against capacitor discharge voltage transient waveforms as specified in RIA 12.
- Will protect against double exponential voltage transient waveforms as specified in IEC 571.

Applications:

- Signaling equipment.
- Communication equipment
- Control gear.
- Trackside cabinets.
- Cell phone base stations



3 ELECTRODE GDT

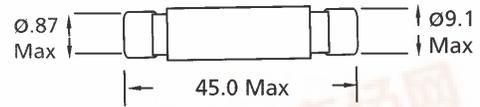
a=TIP

b=RING

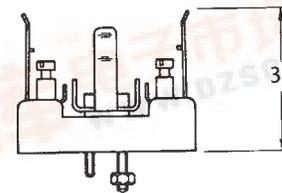
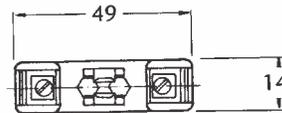
e=GROUND

(centre electrode)

GRAPHICAL SYMBOL



TYPE 1053 Holder



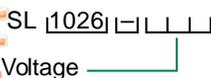
All dimensions in mm

GAS DISCHARGE TUBES

Mechanical Specifications:

- Weight:** 11g (0.388 oz.)
- Materials:** Electrode Base: Nickel Iron Alloy
Electrode Plating: Bright Sn
Body: Ceramic
- Device Marking:** Color coded body
SL1026A275: Black/Black
SL1026A400: Black/Yellow
SL1026A700: Black/Red

ORDERING INFORMATION



Gas Discharge Tubes

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RoHS Greentube™ SL1026 Series Gas Plasma Arresters



LITTELFUSE MAXIMUM DUTY 3 TERMINAL ARRESTER

TOTALLY NON-RADIOACTIVE, UL RECOGNIZED

Part Number	DC Voltage	DC Breakover Voltage (Vbr)	Max Dynamic Breakover Voltage @ 1kV/us (Vbr)	Max Repetitive Impulse Discharge Current ⁽⁴⁾⁽⁹⁾ (A)	Max Single Impulse Discharge Current ⁽⁴⁾⁽⁹⁾ (A)	Max Single Impulse Discharge Current ⁽¹⁾⁽⁴⁾ (A)	Max AC Current ⁽⁴⁾⁽⁷⁾ (A)	Max AC Current, 9 cycles 50Hz ⁽⁴⁾ (A)	Insulation Resistance ⁽¹⁰⁾ (Ohms)	Max Capacitance ⁽⁴⁾ (pF)	Holdover Voltage ⁽³⁾ (V)	Nominal On-State Voltage @ 1A (V)
SL1026-275	275	200-350	800	40,000	55,000	10,000	40	200	1x10 ⁸	2.5	130	20
SL1026-400	400	300-500	900	40,000	55,000	10,000	40	200	1x10 ⁸	2.5	130	20
SL1026-700	700	560-840	1000	40,000	55,000	10,000	40	200	1x10 ⁸	2.5	130	20
SL1026-1100	1100	880-1320	1700	40,000	55,000	10,000	40	200	1x10 ⁸	2.5	130	20

(1) At delivery AQL 0.65 level II, DIN ISO 2859

(2) In ionized mode

(3) Tested according to ITU-T Rec.K.12

(4) Either end electrode to center electrode

(5) Total current through center electrode, both line electrodes connected together

(6) 100 amps, 10/1000µs pulse, as per ITU K 12

(7) 10 shots, A.C. 50Hz, 1 sec. Duration.

(9) 10 shots, 8/20µs waveform

(10) measured @ 100 volts

Voltage vs Time Characteristic

