

R

GAS DISCHARGE TUBES

RoHS Ø Greentube[™] SL1026 Series Gas Plasma Arrester

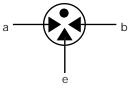
The SL1026 series is a heavy-duty transient suppresser using Gas Plasma technology. In response to a transient voltage which exceeds the fixed breakover voltage (selected according to part number) the device changes from a very high impedance state to a low impedance state, there by conducting harmful 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 8/20 S 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:

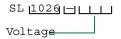
- Signaling equipment.
- Communication equipment
- Control gear.
- Trackside cabinets.
- Cell phone base stations



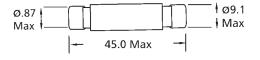
3 ELECTRODE GDT

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

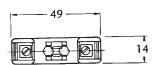
ORDERING INFORMATION

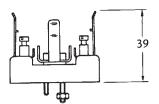












All dimensions in mm

Mechanical Specifications:

Weight: Materials:	11g (0.388 oz.) 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				



JR

Gas Discharge Tubes

Heavy Duty Delta Range

RoHS Greentube™ SL1026 Series Gas Plasma Arrester

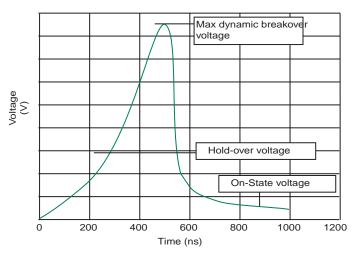
LITTELFUSE MAXIMUM DUTY 3 TERMINAL ARRESTER TOTALLY NON-RADIOACTIVE, UL RECOGNIZED

	DC Breakover Voltage @100 V/s Volts		Max Dynamic Breakover Voltage	AC Discharge	Max Repetitive Impulse	Max Single Impulse Current		Leakage	Holdover
Part Number*	MIN	МАХ	@1kV/µs Volts	Current ^{4,7} Amps	Current ^{4,9} kAmps	8/20 µs ^{4,9} kAmps	10/350 μs ^{1,4} kAmps	Current [®] nAmps	Voltage ³ Volts
SL1026A275	200	350	800	40	40	55	10	100	130
SL1026A400	300	500	900	40	40	55	10	100	130
SL1026A700	560	840	1000	40	40	55	10	100	130
SL1026A1100	880	1320	1700	40	40	55	10	100	130

*Max capacitance is 2.5 pF, measured at 1 MHz.⁴ Max AC Current for 9 cycles is 200 A. Nominal on-state voltage @1A is 20V

Notes:

- 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 (line) electrode to center (Ground) electrode
- 5. Total current through center (Ground) electrode, both line electrodes subject to simultaneous pulses; half value through each respective line terminal
- 6. 100 amps, 10/1000µs pulse, as per ITU K 12
- 7. 10 shots, AC 50Hz, 1 sec. duration.
- 8. 10 shots, 8/20µs waveform
- 9. Measured at 100V



Voltage vs Time Characteristic