

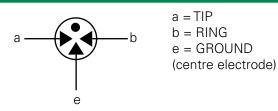
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RoHS

# SL1026 Series



### **3 Electrode GDT Graphical Symbol**



### Additional Information







#### Description

The SL1026 Series is a heavy-duty transient suppresser using Gas Plasma technology. In response to transients that exceed the device's breakover voltage, the device changes from a very high impedance state to a low impedance state to conduct harmful current away from the protected system. The SL1026 is designed to protect electrical and electronic equipment such as communications, control and railway systems. Carefully designed geometry ensures against short circuiting if a failure occurs due to conditions and events beyond the design criteria. Optional electrical mounting clip (part SL1053 ) is available to aid mounting and connection.

#### 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

• Communication

equipment

• Control gear.

- Signaling equipment.
- Trackside cabinets.
  Coll phone base
- Cell phone base stations

#### **Electrical Characteristics**

Part Number*	DC Voltage 100 V/sec		DC	<sup>1</sup> AC Current	<sup>1</sup> AC Current	<sup>1</sup> Surge Current	<sup>1,2</sup> Max Single	<sup>1</sup> Max Single	<sup>1</sup> 150(+) and 150(-)
	MIN	MAX	Voltage 1kV/µs	9 cycles @50-60Hz (Amps)	50Hz 1 sec x10 (Amps)	8/20µSec x 10 (kAmps)	Surge 8/20µSec (kAmps)	Surge 10/350µSec (kAmps)	10/1000µSec (Amps)
SL1026-275	200	350	800	200	10	20	40	8	200
SL1026-400	300	500	900	200	10	20	40	8	200
SL1026-700	560	840	1300	200	10	20	40	8	200

NOTES:

End of life limits

- DC: 50% of minimum initial DC breakdown voltage limit to 150% of maximum initial

DC breakdown voltage limit.

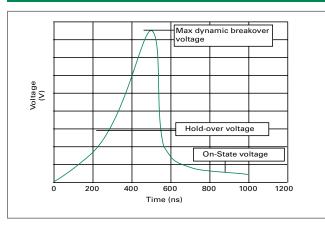
Impulse: less that 150% of initial impulse breakdown voltage limit.

1. Total current through center electrode, tested using SL1053B-NL holder

2. Exceeds capability of SL1053B-NL holder



### Voltage vs. Time Characteristic



# **Electrical Specifications**

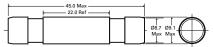
Insulation Resistance	$> 10G\Omega$ at 100 Volts			
Capacitance:	<=2.5pf, 1MHz 0 Volts Bias			
Holdover Voltage:	<150mS, tested at 130 volts according to ITU-T Rec. K.12 & REA PE 80			
Arc Voltage:	~35 Volts, On State Voltage at 1 Amp (Depending on Voltage Type)			
Glow to Arc Transition Current:	~1 Amp			
Glow Voltage:	> 150 Volts, depending on Voltage Type			

# **Physical Specifications**

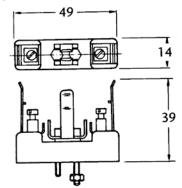
Weight:	11g (0.388 oz.)			
Materials:	Electrode Base: Nickel Iron Alloy Electrode Plating: Nickel Body: Ceramic			
Part Marking:	Color coded body SL1026-275: Black/Black SL1026-400: Black/Yellow SL1026-700: Black/Red			
Storage and Operating Temperature:	-40°C to +90°C			

## **Product Dimensions**

# **SL1026 GDT Series Profile**

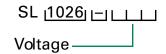


# **Type 1053 Holder Profile**



All dimensions in mm

# Part Numbering System



# Packaging

GDT devices are provided as bulk pack in poly bag – 20 pieces per bag and 5 bags per carton.

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