

# Gas Discharge Tube GTCx26 Miniature Two Electrode Series

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Document: SCD 25817  
Status: Released  
Rev. C Date: September 3, 2004

## GENERAL DESCRIPTION

### BENEFITS

- Helps provide overvoltage fault protection against high energy surges
- Suitable for sensitive equipment due to excellent impulse sparkover response
- Suitable for high-frequency applications
- Highly reliable performance

### FEATURES

- Crowbar device with low arc-voltage
- Low capacitance and insertion loss
- High accuracy spark-over voltages for high precision designs
- Tested per ITU K.12 recommendations
- Non-radioactive materials

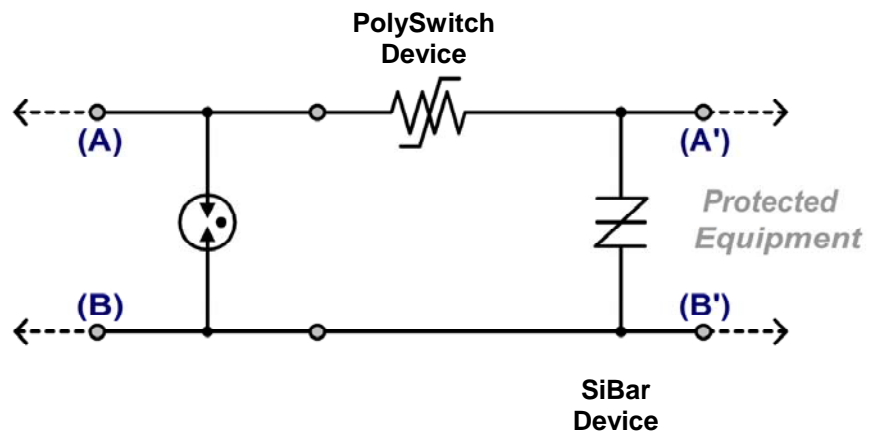
## APPLICATIONS

- Telecommunications:
  - MDF modules, xDSL equipment, RF system protection
- Industrial Electronics and Commercial Electronics, such as
  - Power Supplies, Surge Protectors, Alarm systems

## SYMBOL



## TYPICAL APPLICATION SCHEMATIC





**Gas Discharge Tube**  
**GTCx26**  
**Miniature Two Electrode Series**

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**GENERAL CHARACTERISTICS**

- No Radioactive Material
- Storage temperature: -40°C ... +90°C
- Operating temperature: -40°C ... +90°C
- Body: Nickel Plated
- Leads: Tin Plated



**DEVICE RATINGS AND CHARACTERISTICS**

Part Number	DC Sparkover Voltage	Impulse Sparkover Voltage		Insulation Resistance	Capacitance	DC Holdover Voltage	Impulse Life	Impulse Discharge Current 8/20 $\mu$ s		AC Discharge Current, 50 Hz	
	@ 100V/s	@ 100V / $\mu$ s	@ 1kV / $\mu$ s	@ 100V	@ 1MHz	Per ITUK.12	10/1000 $\mu$ s, 50A	Single Hit	Repeat 10 times (5 times - each polarity)	Single Hit, 9 Cycles	Repeat 10 times (1s interval)
GTCN26-101M-P02 GTCA26-101M-P02	100V $\pm$ 20%	$\leq$ 500V	$\leq$ 700V	$\geq$ 10,000M $\Omega$ <sup>1</sup>	$\leq$ 1.0pF	$\leq$ 52V	300 times	3kA	2.5kA	--	2.5A
GTCN26-231M-P05 GTCA26-231M-P05	230V $\pm$ 20%	$\leq$ 500V	$\leq$ 700V	$\geq$ 10,000M $\Omega$	$\leq$ 1.0pF	$\leq$ 135V	300 times	10kA	5kA	20A	5A
GTCN26-351M-P05 GTCA26-351M-P05	350V $\pm$ 20%	$\leq$ 600V	$\leq$ 800V	$\geq$ 10,000M $\Omega$	$\leq$ 1.0pF	$\leq$ 135V	300 times	10kA	5kA	20A	5A

Note 1. Insulation Resistance at 50 V<sub>DC</sub>.

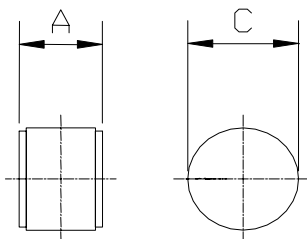
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**DIMENSIONS**

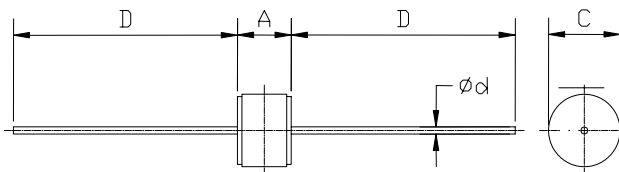
No Leads (GTCN26):



		A		C	
		MIN	MAX	MIN	MAX
mm:		4.0	4.3	5.8	6.2
in*:		0.16	0.17	0.23	0.24

\*Rounded off approximation

Axial Leads (GTCA26):



		A		C		D		$\phi d$
		MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:		4.0	4.3	5.8	6.2	23.0	27.0	0.8
in*:		0.16	0.17	0.23	0.24	0.90	1.06	0.03

\* Rounded off approximation



# Gas Discharge Tube

## GTCx26

### Miniature Two Electrode Series

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#### PACKAGING

Packaging	Bulk* ( vacuum bags)	Tray**	Standard Box
GTCN26	200	--	1,000***
GTC A26	--	100	1,000****

\* Bulk packaging only for GTCN26

\*\*Tray packaging only for GTC A26

\*\*\* 5 bags

\*\*\*\* 10 trays

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