

Gas Discharge Tube
Miniature Two Electrode Series
Overvoltage Protection Device

Raychem Circuit Protection Products

PRODUCT: GTCx26

DOCUMENT: SCD 25817
REV LETTER: D
REV DATE: MAY 25, 2007
PAGE NO.: 1 OF 5

Specification Status: Released

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

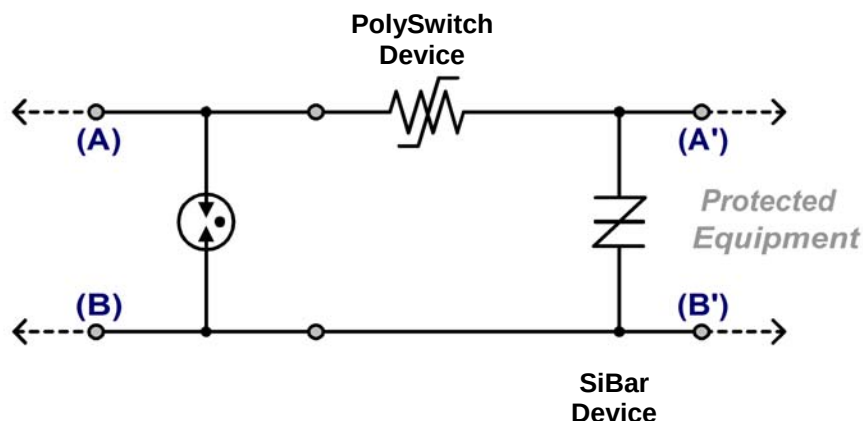
APPLICATIONS

- 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

Miniature Two Electrode Series

Overvoltage Protection Device

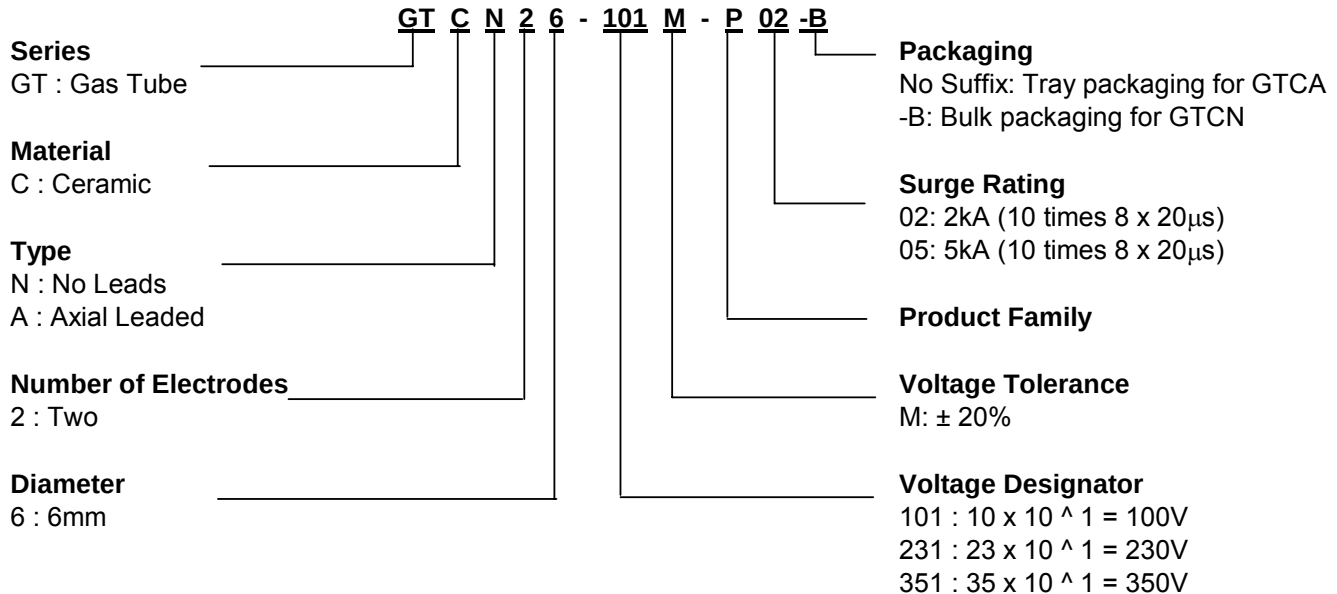
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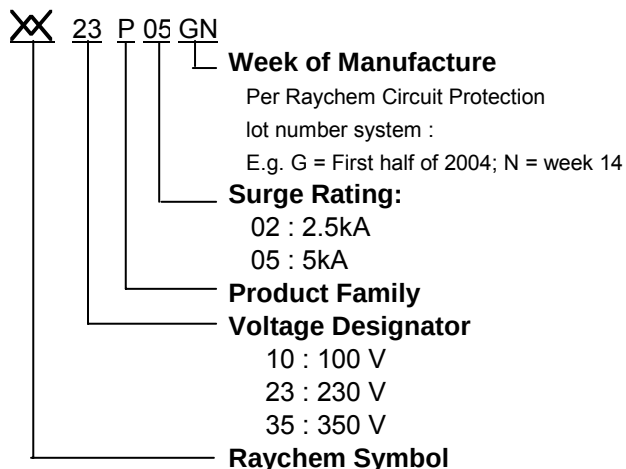
PART NUMBERING

EXAMPLE:



DEVICE MARKING

EXAMPLE : GTCA26-231M-P05



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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 μ s		AC Discharge Current, 50 Hz	
	@ 100V/s	@ 100V / μ s	@ 1kV / μ s	@ 100V	@ 1MHz	Per ITUK.12	10/1000 μ 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 Ω ¹	$\leq$ 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 Ω	$\leq$ 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 Ω	$\leq$ 1.0pF	$\leq$ 135V	300 times	10kA	5kA	20A	5A

Note 1. Insulation Resistance at 50 V_{DC}.

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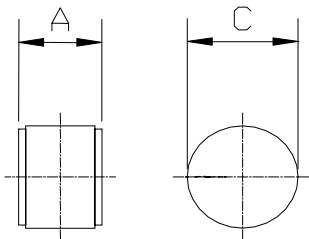
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DIMENSIONS

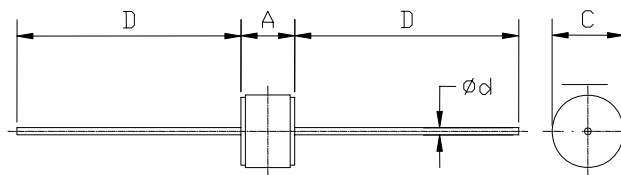
No Leads (GTCN26):



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		Ød
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



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PACKAGING

Packaging	Bulk* (vacuum bags)	Tray**	Standard Box
GTCN26	200	--	1,000***
GTCA26	--	100	1,000****

* Bulk packaging only for GTCN26

**Tray packaging only for GTCA26

*** 5 bags

**** 10 trays

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