

ANTREX Electronics

Electronic Components Sourcing Information

Product Reference Information

Part Number: GTCR36-900M-P05
Manufacturer: Littelfuse Inc.
Package: Bag
Availability: Please confirm with sales

Product Page:

<https://antrexco.com/product/details/littelfuse-inc/gtcr36-900m-p05.html>

Request a Quote:

[Submit RFQ for this part](#)



Scan for product page

Contact Information

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WhatsApp: +86-186-8066-5326

Website: <https://antrexco.com>

Quality & Trust

New & Original Components

Supplier verification and packaging condition review

CoC / RoHS / REACH documents available on request

Secure sourcing support for OEM / EMS projects

Note:

This PDF includes an ANTREX product reference cover page.

The original manufacturer datasheet follows from the next page.



308 Constitution Drive
Menlo Park, CA 94025-1164
Phone: 800-227-4856
www.circuitprotection.com

Gas Discharge Tube Miniature Three Electrode Overvoltage Protection Device

Raychem Circuit Protection Products

PRODUCT: GTCx36

DOCUMENT: SCD 25815
REV LETTER: E1
REV DATE: 15-Apr-11
PAGE NO.: 1 OF 6

Specification Status: Released

BENEFITS

- Helps provide overvoltage fault protection against high energy surges
- Suitable for sensitive equipment due to excellent impulse spark over 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
- Optional Fail-Short mechanism
- 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





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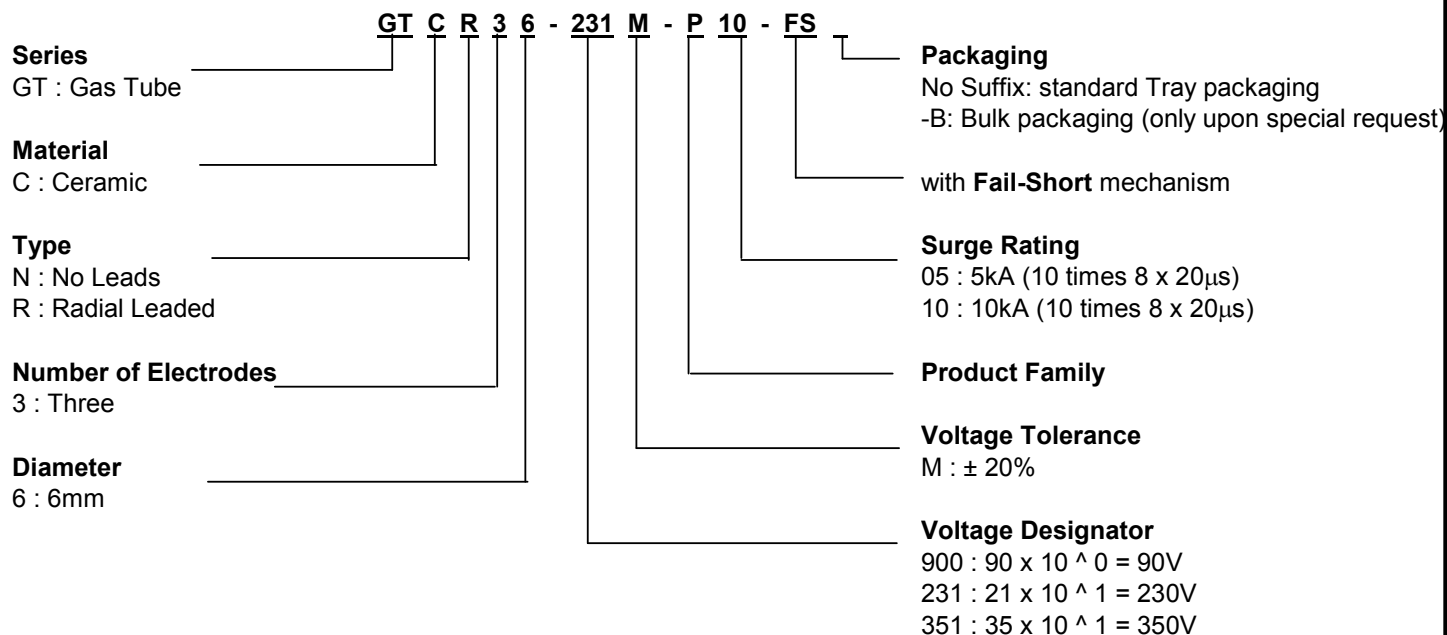
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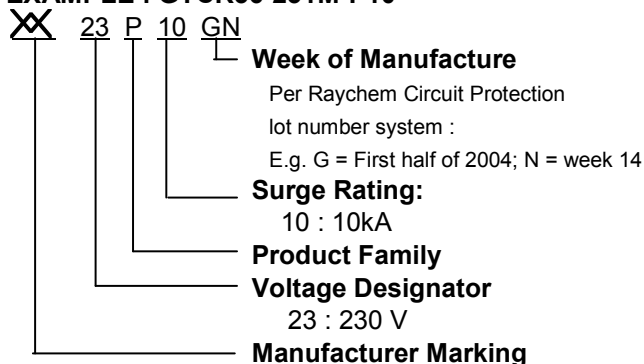
PART NUMBERING

EXAMPLE:



DEVICE MARKING

EXAMPLE : GTCR36-231M-P10





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GENERAL CHARACTERISTICS

No Radioactive Materials

Storage temperature:

Devices without Fail-Short mechanism: -40°C ... +90°C

Devices with Fail-Short mechanism: -20°C ... +65°C

Operating temperature:

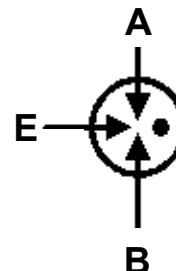
Devices without Fail-Short mechanism: -40°C ... +90°C

Devices with Fail-Short mechanism: -20°C ... +65°C

Body: Nickel Plated

Leads: Tin Plated

UL 497B Pending



MATERIALS INFORMATION

RoHS Compliant

ELV Compliant

Directive 2002/95/EC
Compliant

Directive 2000/53/EC
Compliant

DEVICE RATINGS AND CHARACTERISTICS

	DC Spark over Voltage (A-E) (B-E)	Impulse Spark over Voltage (A-E) (B-E)	Insulation Resistance	Capacitance	DC Holdover Voltage	Impulse Life (A+B-E)	Impulse Discharge Current 8/20µs (A+B-E)	AC Discharge Current, 50 Hz (A+B-E)
Part Number	@ 100V/s	@1kV/µs	@100V _{DC}	@ 1MHz	Per ITU K.12	10/1000µs, 100A	Repeat 10 times (5 times each polarity)	Repeat 5 times (1s interval)
GTCN36-900M-P05 GTCR36-900M-P05 GTCR36-900M-P05-FS	90V ± 20%	≤ 850V	≥ 10,000MΩ ¹	≤ 3.0pF	≤ 52V	300times	5kA	5A
GTCN36-231M-P10 GTCR36-231M-P10 GTCR36-231M-P10-FS	230V ± 20%	≤ 700V	≥ 10,000MΩ	≤ 3.0pF	≤ 135V	300 times	10kA	10A
GTCN36-351M-P05 GTCR36-351M-P05 GTCR36-351M-P05-FS	350V ± 20%	≤ 750V	≥ 10,000MΩ	≤ 3.0pF	≤ 150V	300 times	5kA	5A

Note 1. Measured at 50V_{DC}



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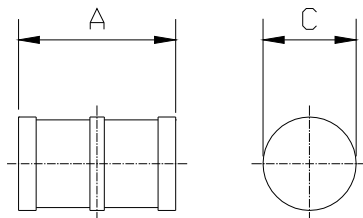
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DIMENSIONS

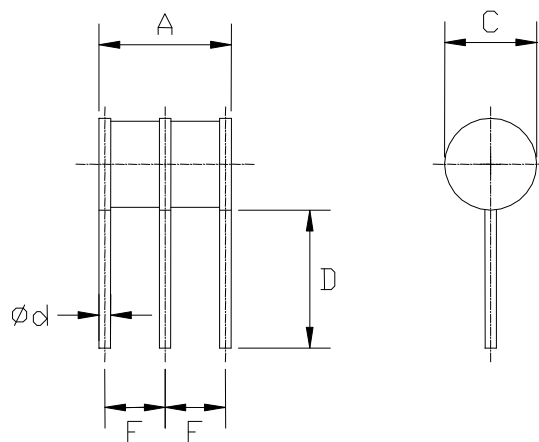
No Leads, no Fail-Short mechanism
(GTCN36)



	A		C	
	MIN	MAX	MIN	MAX
mm:	8.3	8.9	5.8	6.2
in*:	0.33	0.35	0.23	0.25

*Rounded off approximation

Radial Leads, no Fail-Short mechanism
(GTCR36)



	A		C		D		E		Ød
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
mm:	8.3	8.9	5.8	6.2	6.5	7.5	3.5	4.1	0.8
in*:	0.33	0.35	0.23	0.25	0.26	0.30	0.14	0.16	0.03

* Rounded off approximation



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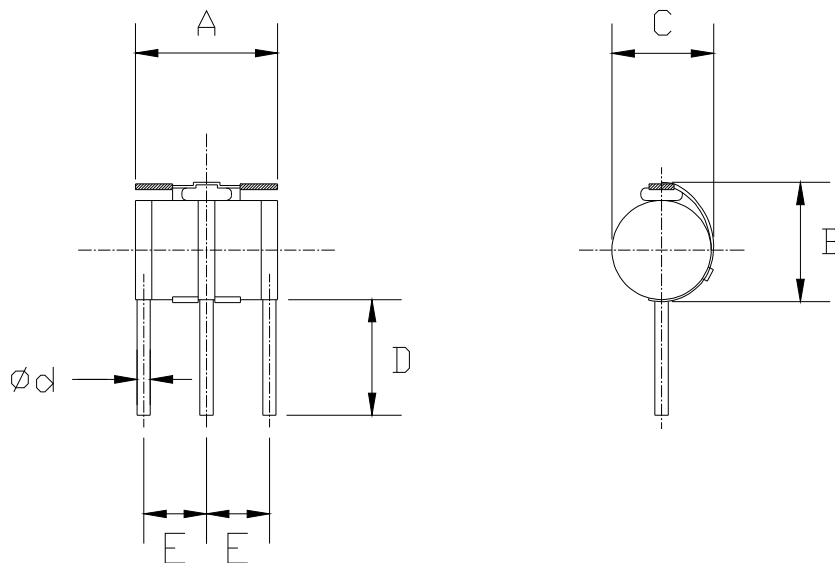
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Radial Leads, with Fail-Short mechanism
(GTCR36-xxxM-Pxx-FS)



		A		B		C		D		E		∅d
mm: in*:		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	NOM
		8.3	8.9	--	7.7	--	6.5	6.5	7.5	3.5	4.1	0.8
		0.33	0.35	--	0.30	--	0.26	0.26	0.30	0.14	0.16	0.03

* Rounded off approximation



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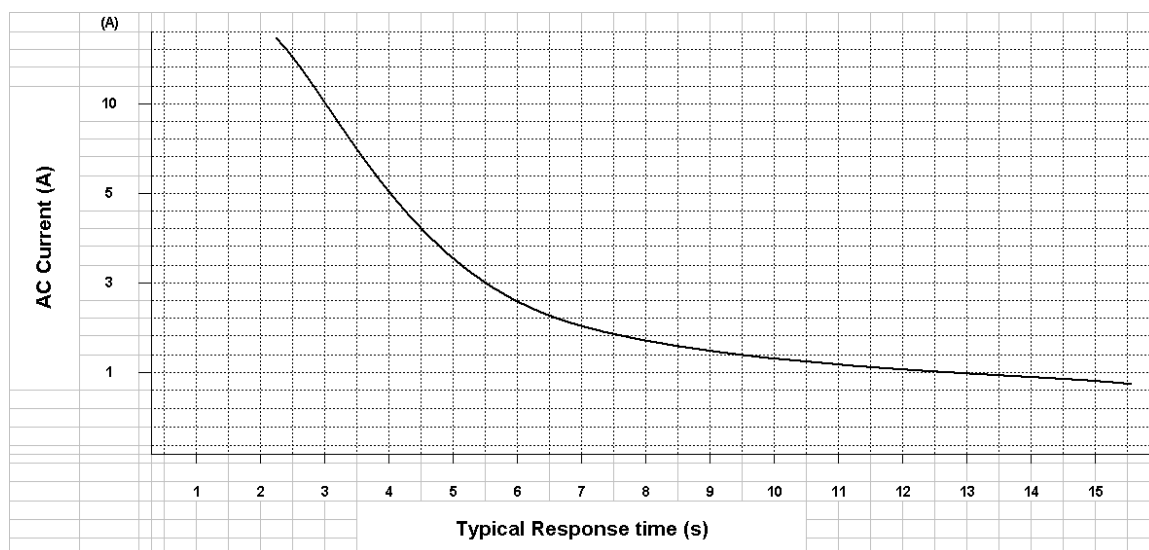
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FAIL-SHORT MECHANISM RESPONSE TIME (Graph represents typical values)



Note: Both electrodes simultaneously powered, each with the AC current value in the graph

PACKAGING

Packaging	Bulk (vacuum bags)	Tray	Standard Box
Quantity	200*	100	1,000**

* Standard packaging is in trays.
Bulk packaging is only available upon request.

** 5 bags or 10 trays

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