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Features

- Fast acting
- Balanced
- Stable breakdown throughout life
- Designed to operate with TBU® devices
- RoHS compliant* versions available

Applications

- Telecommunications
- Industrial electronics
- Avionics

2020 T-Series - Fast Acting 3-Electrode Miniature GDT

Characteristics

Test Methods per ITU-T K.12, IEEE C62.31 and IEC 61643-311 GDT standards.

Characteristic	Model No.		
	2020-15T	2020-23T	2020-42T
Minimum DC Sparkover (100 V/s) Throughout Service Life	60 V	180 V	360 V
Maximum Impulse Sparkover (1) (5 kV/µs) Throughout Service Life	500 V	650 V	850 V

(1) Impulse Sparkover voltage is defined as typical values of distribution.

Impulse Transverse Delay	1000 V/µs		< 75 ns
Insulation Resistance (IR)	50 V / 100 V		> 10^9 Ω
Glow Voltage	10 mA		~ 70 V
Arc Voltage	>1 A		~ 10 V
Glow-Arc Transition Current			< 0.5 A
Capacitance	1 MHz		< 2 pF
DC Holdover Voltage (Network Applied per ITU-T K.12)			
2020-15T	52 V		< 150 ms
2020-23T	80 V		< 150 ms
2020-42T	135 V		< 150 ms
Service Life (2)	8/20 µs, 10 kA		1 operation
	10/1000 µs, 1 kV, 200 A		100 operations (3)
	2/10 µs, 6 kV, 2000 A		10 operations (3)
	10/700 µs, 6 kV, 300 A		50 operations (3)
	8/20 µs, 500 A, 1.2/50 µs, 500 V		150 operations (3)
	600 V, 10 Arms, 0.2 sec		10 operations
	600 Vrms, 0.5 A - 60 A		Fail-Short activates (4)
	230 Vrms, 0.5 A-25 A		Fail-Short activates (4)
Operating Temperature Range			-40 °C to +90 °C
Storage Temperature Range			-55 °C to +90 °C

Notes:
(2) The rated discharge current is the total current equally divided between each line to ground.
(3) Surge polarity should be reversed between consecutive surges (+,-,+,-)
(4) Applies only to GDT with optional Fail-Short. GDT operates and will survive with Fail-Short activation.

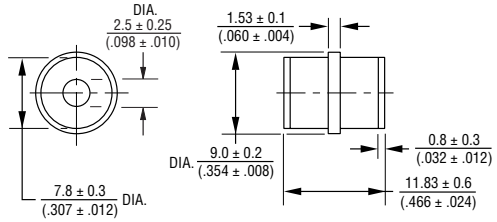
- At delivery AQL 0.65 Level II, DIN ISO 2859.
- Models with the optional Fail-Short assembly activate at low temperature (215 °C – 217 °C) when required. These models are designed to be soldered either manually or using a selective soldering process that does not exceed 210 °C, below the temperature that the Fail-Short assembly would activate.

Applications

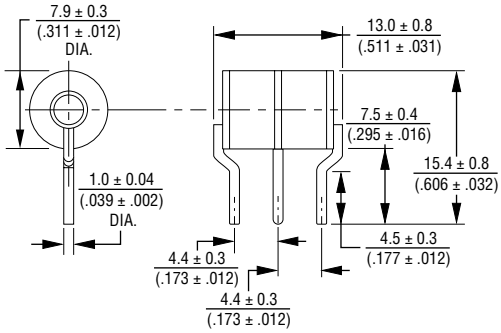
Port Protection	GDT Device P/N	TBU® Device P/N
CanBus	2020-23T	TBU-CA065-100-WH
RS232	2020-23T	TBU-CA065-200-WH
RS422	2020-23T	TBU-CA065-200-WH
RS485	2020-23T	TBU-CA065-200-WH
RS485	2020-42T	TBU-CA085-200-WH
SDI	2020-23T	TBU-CA065-100-WH
VDSL	2020-15T	TBU-CA050-500-WH

Product Dimensions (additional lead form configurations available upon request)

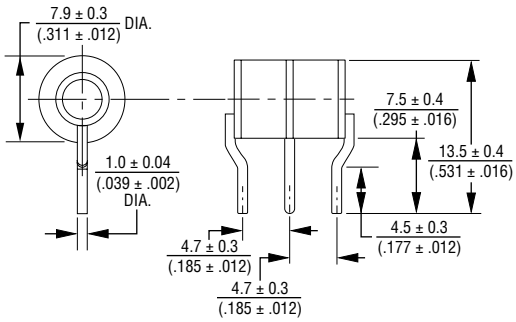
2020-xxT-A1



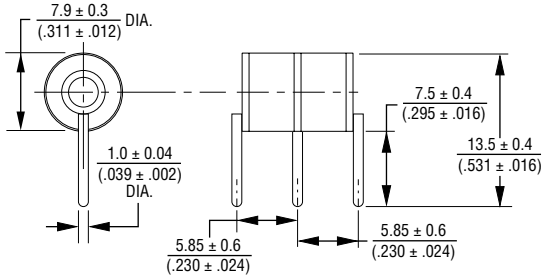
2020-xxT-C2



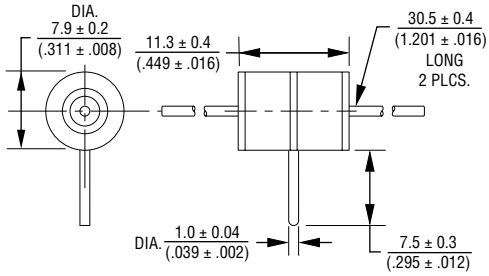
2020-xxT-C3



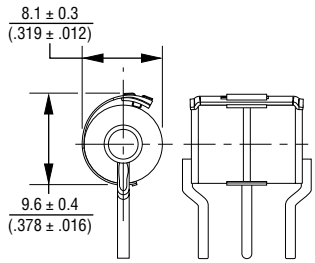
2020-xxT-C4



2020-xxT-C
1.0 ± 0.08 mm (.039 ± .003 in.) dia. lead wire



FAIL-SHORT CONFIGURATION
2020-xxT-C2F SHOWN



DIMENSIONS: MM / (INCHES)

UNITS WITH LEADS ARE BASED ON THE 2020-xxT-A1 BODY.

How to Order

2020 - xxT - x x F LF

Model Number Designator

Voltage
- 15 = 60 V
- 23 = 180 V
- 42 = 360 V

Leads
- A = None/Cassette Applications
- C = 1 mm Dia. Leads/Through-hole

Lead Shape
(See Product Dimension Drawings)

Fail-Short Option
- Blank = Standard Product
- F = With Fail-Short Mechanism

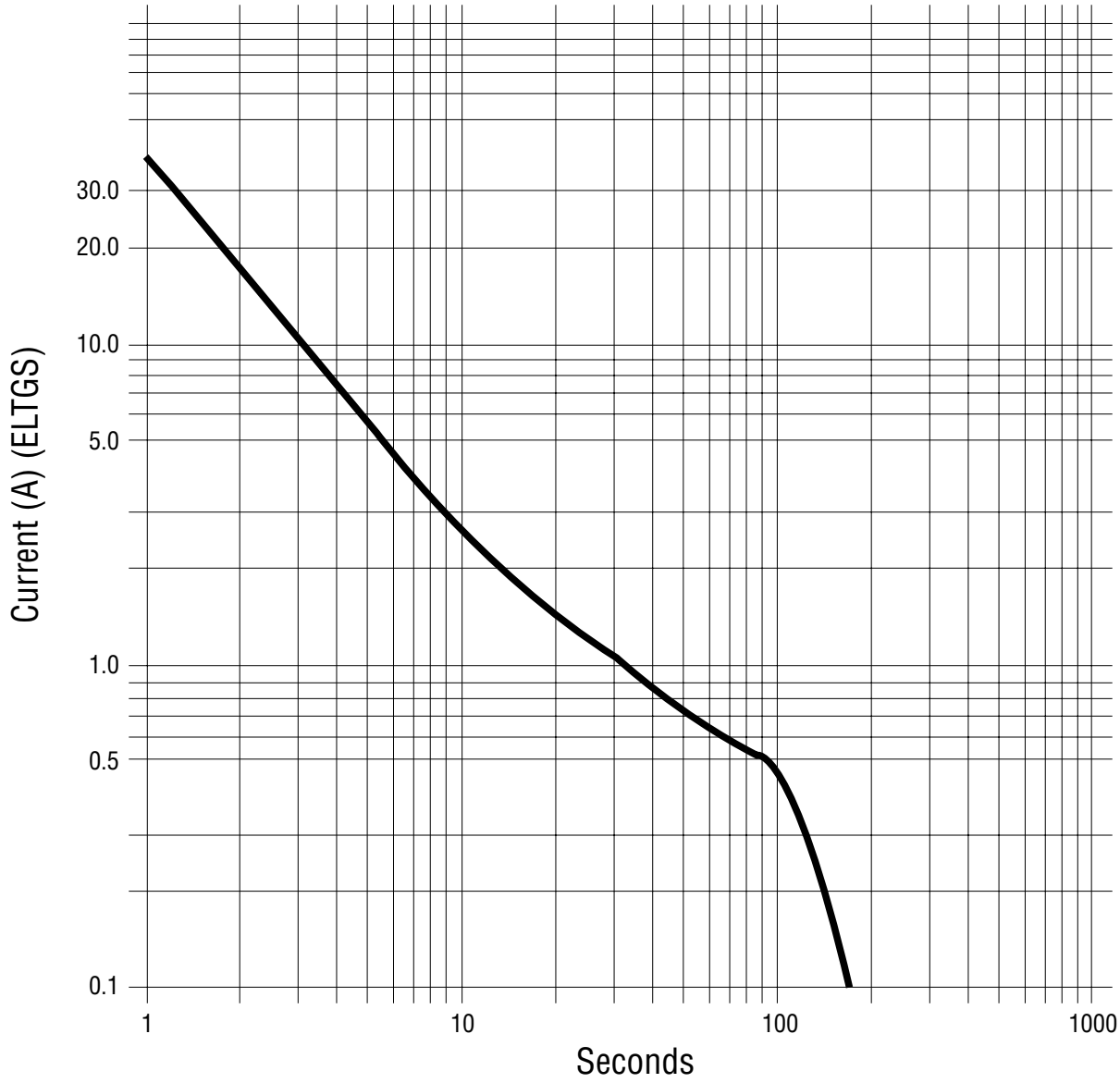
RoHS Compliant Option
- Blank =Standard Product
- LF = RoHS Compliant Product

Model 2020-xxT ships in standard bulk pack, 100 pcs./tray.

Packaging Specifications

Model	Standard Packaging Quantity		
	Bulk (Bag)	Tray	Box
2020-xxT-A1	250		1000
2020-xxT-C		100	900
2020-xxT-C2		100	900
2020-xxT-C3		100	900
2020-xxT-C4		100	900

Switch-Grade Fail-Short Device Shorting Curve 2020-xxT-XF



ELTGS = Each Line to Ground Simultaneously

NOTE: When using a GDT fail-short device, it is imperative that all components associated and connected to the GDT with failsafe be tested in their respective completely integrated environment (finished product) to assure desired operation.