

Gas Discharge Tube: GB8 Series

3-Electrode $\Phi 8.0 \times T10$ mm Type



■ Features

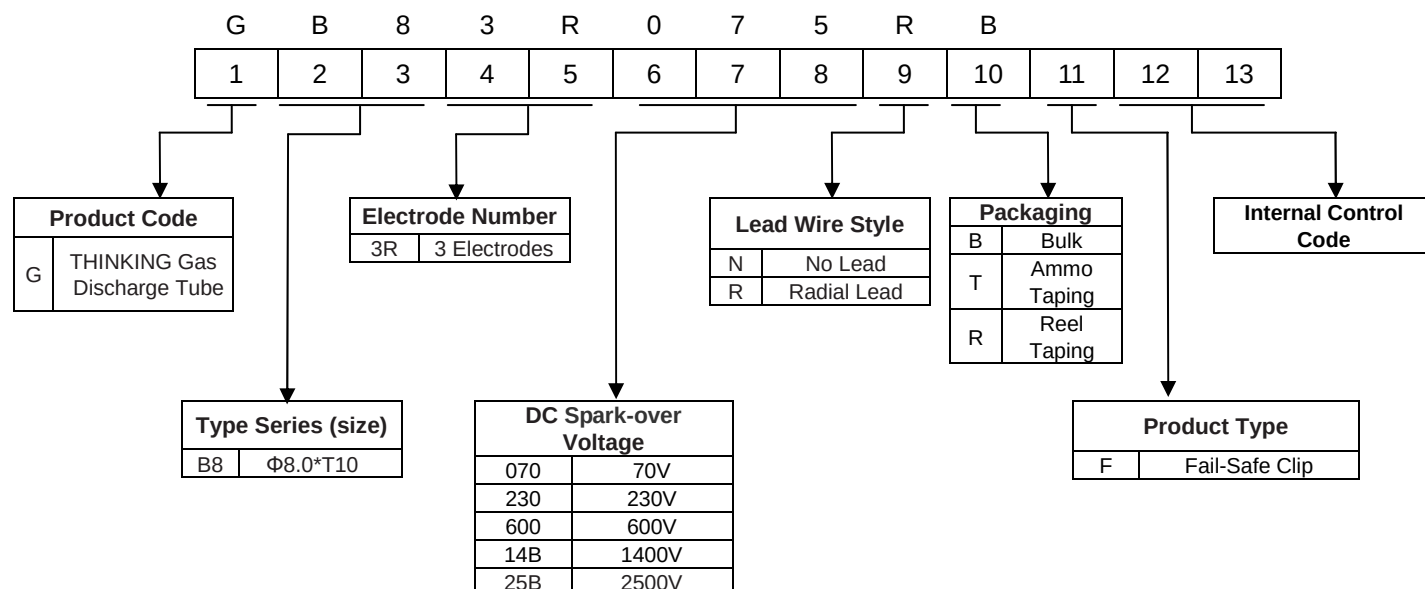
1. RoHS compliant
2. Rugged ceramic-metal construction
3. Available with or without leads
4. Available with fail-safe clip
5. DC spark-over voltage : 75~600V
6. Low capacitance
7. Agency recognition :UL



■ Recommended Applications

1. Data transmission lines
2. Communication lines
3. CATV system
4. Power distribution system
5. Power supplier
6. Test equipment
7. Instrumentation circuits

■ Part Number Code



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■ Characteristics

Type	DC Breakdown Voltage	Max. Impulse Breakdown Voltage		Impulse Discharge Current (8/20μs)	Impulse Life (10/1000μs)	Normal Alternating Discharge Current	DC Holdover voltage	Minimum Insulation Resistance	Maximum Capacitance (1MHz)	Safety approvals
	(100V/S)	100V/μs	1KV/μs	10 times (5 times each polarity)	200 A	50Hz,1Sec	<150ms			
	(V)	(V)	(V)	(KA)	Times	(A)	(V)	(GΩ)	(pF)	UL 497B
GB83R075□□(F)	75±20%	600	700	20	130	20	52	10	2	√
GB83R090□□(F)	90±20%	600	700				52			√
GB83R145□□(F)	145±20%	500	700				52			√
GB83R200□□(F)	200±20%	500	700				135			√
GB83R230□□(F)	230±20%	600	700				135			√
GB83R250□□(F)	250±20%	600	700				135			√
GB83R300□□(F)	300±20%	700	900				150			√
GB83R350□□(F)	350±20%	700	900				150			√
GB83R400□□(F)	400±20%	800	1000				150			√
GB83R420□□(F)	420±20%	800	1000				150			√
GB83R470□□(F)	470±20%	900	1000				150			√
GB83R600□□(F)	600±20%	1000	1100				150			√

Note1 : The first □ is the style of lead wire, the second □ is packaging.

Note2 : F = With fail-safe clip for optional.

Note 3: UL / 497B → File No. E245070

Note 4: Insulation resistance test conditions:

DC Breakdown Voltage	DC Measuring Voltage
75-90V	50V
145-400V	100V
420-600V	250V

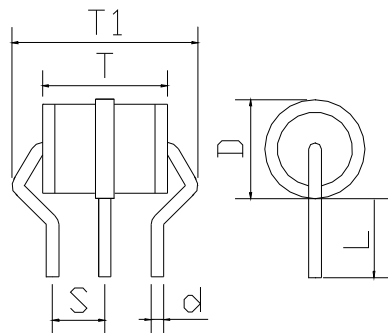
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■ Dimensions

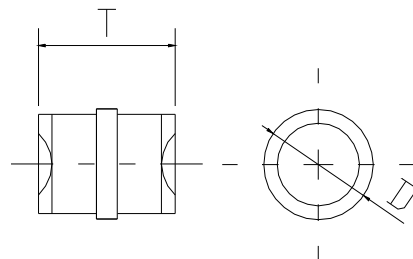
☐= R (Radial lead type)



Unit: mm

Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.2/-0.8
T	10.0	±0.5
T1	13.4	+0.8/-0.5
L	7.5	±0.5
S	4.4	±0.4
d	1.0	±0.05

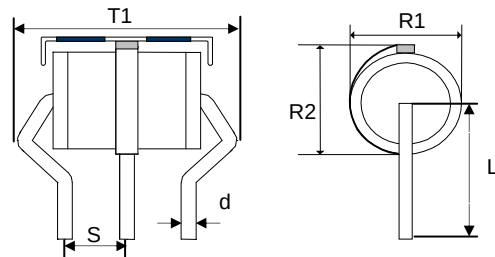
☐= N (No lead type)



Unit: mm

Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.2/-0.8
T	10.0	±0.5

☐= F (Fail-Safe Device)



Unit: mm

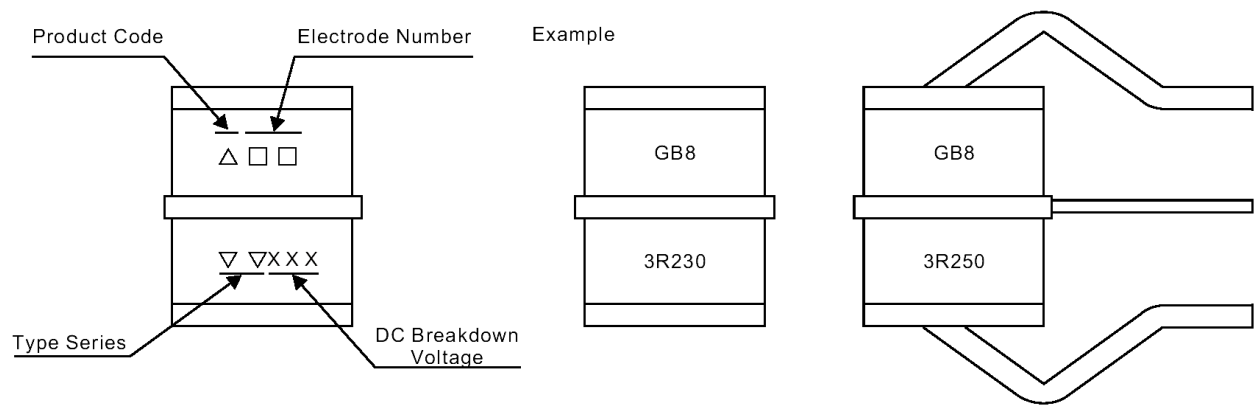
Item	Dimensions	
	Spec.	Tolerance
R1	8.1	±0.3
R2	9.8	±0.4
T1	13.4	±0.4
L	11.0	±0.5
S	4.4	±0.3
d	1.0	±0.05

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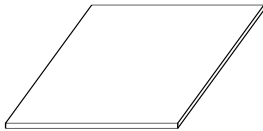
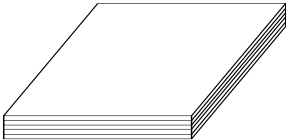


■ Marking



■ Packaging

● Bulk

Plastic Tray (210x220x12mm)	Inner Box (210x225x60mm)	Outside Box (450x245x345mm)
 100 PCS/Plastic tray	 500 PCS/Box	 5000 PCS/Carton

■ Storage Conditions of GDT

- (I) Storage conditions:
1. Storage Temperature: -10℃ ~ +40℃.
 2. Relative humidity: ≤75%RH.
 3. Gas discharge tube must be kept away from sunlight and stored in a non-corrosive atmosphere.
- (II) Shelf life: 1 year.