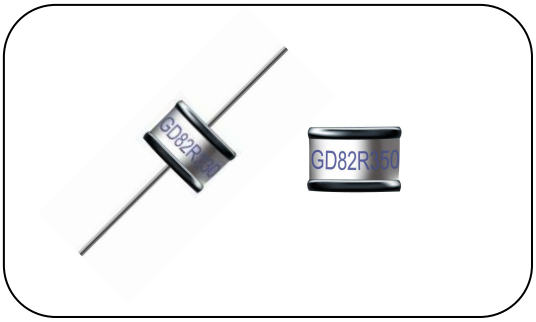
Gas Discharge Tube: GD8-H Series

2-Electrode Φ8.0*T6 mm High Surge

■ Features

1. RoHS compliant
2. Rugged ceramic-metal construction
3. Available with or without Leads
4. DC spark-over voltage: 70V ~470V
5. Low capacitance
6. High transient current capability
7. Agency recognition: UL/cUL



■ 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

G	D	8	2	R	0	7	0	A	B	H		
1	2	3	4	5	6	7	8	9	10	11	12	13

Product Code

G	THINKING Gas Discharge Tube

Electrode Number

2R	2 Electrodes

Lead Wire Style

N	No Lead
A	Axial Lead

Packaging

B	Bulk
T	Ammo Taping
R	Reel Taping

Internal Control Code

Type Series (size)

D8	Φ8.0*T6.0

DC Spark-over Voltage

070	70V
230	230V
600	600V
14B	1400V
25B	2500V

Product Type

H	High Surge

Gas Discharge Tube: GD8-H Series

2-Electrode Φ8.0*T6 mm High Surge

■ 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	1 time	10 times	100A	50Hz, 1Sec	Single 9 Cycles	<150ms			
	(V)	(V)	(V)	(KA)		Times	(A)		(V)	(GΩ)	(pF)	UL 497B
GD82R070□□H	70±20%	500	600	20	15	500	20	65	52	10	1.5	√
GD82R075□□H	75±20%	500	600						52			√
GD82R090□□H	90±20%	500	600						52			√
GD82R120□□H	120±15%	500	700						52			√
GD82R130□□H	130±15%	500	700						52			√
GD82R145□□H	145±15%	500	700						52			√
GD82R180□□H	180±15%	500	700						80			√
GD82R230□□H	230±15%	500	700						80			√
GD82R250□□H	250±15%	500	700						80			√
GD82R300□□H	300±15%	700	900						150			√
GD82R350□□H	350±15%	700	900						150			√
GD82R400□□H	400±15%	800	1000						150			√
GD82R470□□H	470±15%	900	1100						150			√

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

Note2: H = High Surge Series

Note3: UL / 497B→ File No. E245070

Note 4: Insulation resistance test conditions:

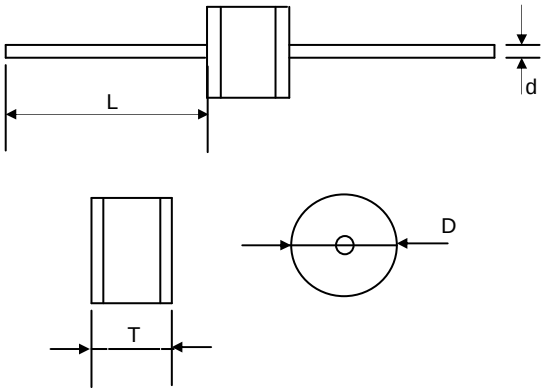
DC Breakdown Voltage	DC Measuring Voltage
70-90V	50V
120-400V	100V
470-600V	250V

Gas Discharge Tube: GD8-H Series

2-Electrode Φ8.0*T6 mm High Surge

■ Dimensions

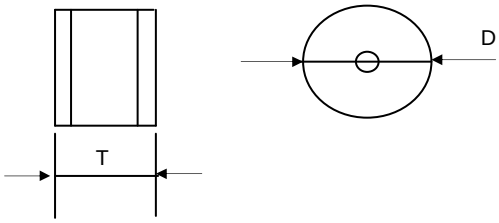
□ = A (Axial lead type)



Unit: mm

Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.3/-0.5
T	6.0	+0.3/-0.5
L	20	Min.
d	1.0	±0.05

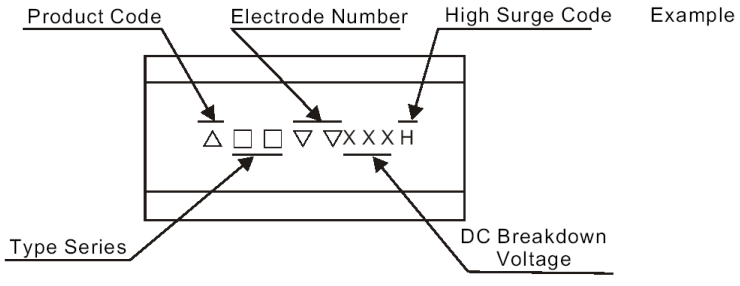
□ = N (No lead type)



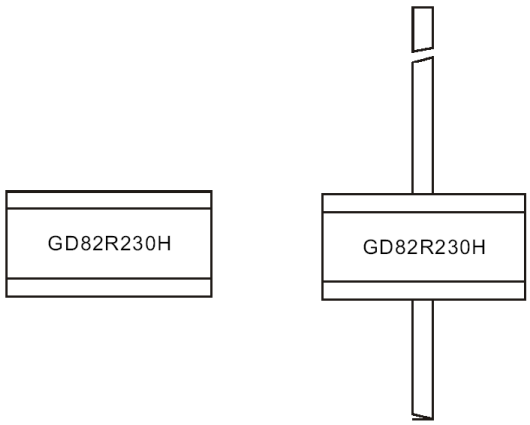
Unit: mm

Item	Dimensions	
	Spec.	Tolerance
D	8.0	+0.3/-0.5
T	6.0	+0.3/-0.5

■ Marking

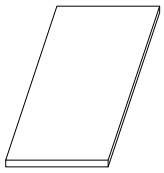
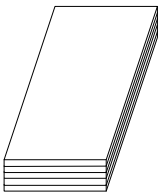
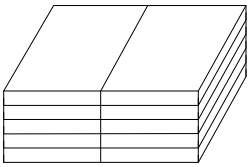


Example



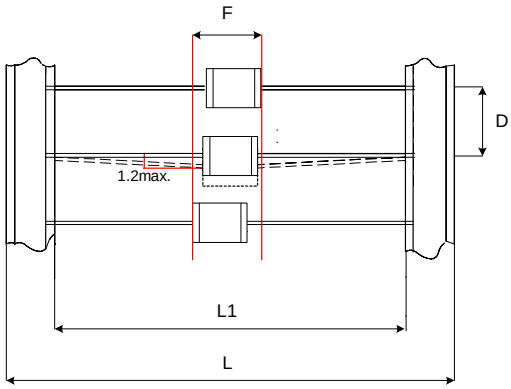
■ Packaging

● Bulk

Plastic Tray (263×144×6mm)	Inner Box (270×145×50mm)	Outside Box (320×305×280mm)
		
100 PCS/ Plastic Tray	500 PCS/box	5000 PCS/carton

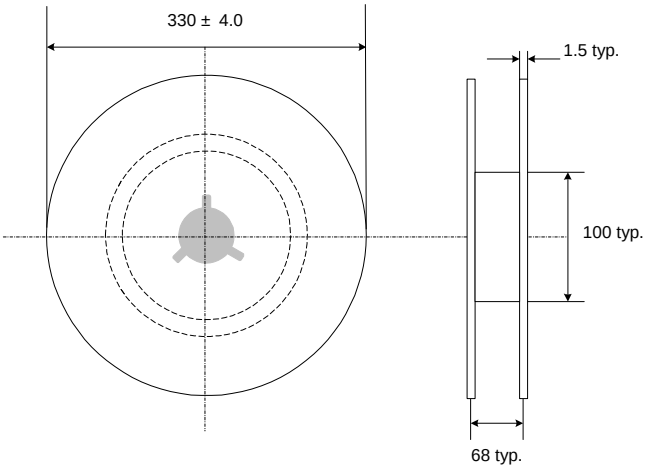
● Taping

For 2-electrode axial lead GDT



Unit: mm

Item	Dimensions	
	Spec.	Tolerance
L1	52	±2
L	64	±3
D	10	±0.5
F	T of Gas Tube + 1.4	Max.



■ 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.