

## Gas Discharge Tube in single package

### Description

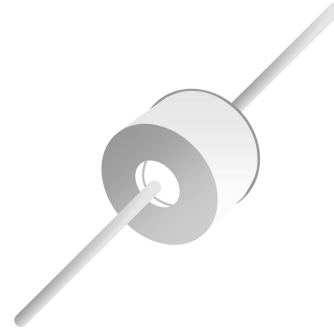
GDTs of RDSEMI are designed compliant with industrial specification of ITU-T K.12 2000 and national standards of GB/T 9043 2002, could meet over voltage transients protection requirements of lightning strikes, power cross and induction in both telecommunication equipments and power lines.

### Features

- High Current Handling Capability
- Low Capacitance
- Fast Response
- Long Service Life
- Extremely low capacitance (<1.0pF)

### Mechanical Data

- **Case:**  $\phi 5.5 \times 6$ mm(plastic package).  
Lead free; RoHS compliant
- **Molding Compound Flammability Rating:**  
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:  
260 °C/10 sec. at terminals



### Application

- Modem
- Splitter
- Base stations

## Electrical specifications

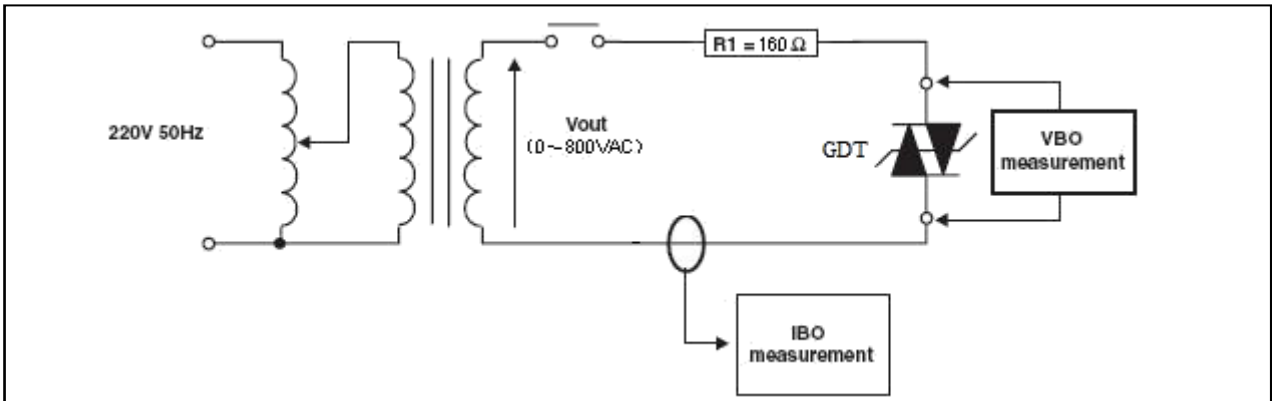
Part No.	DC Breakdown Voltage (V)	Impulse Breakdown Voltage Max (V)		Impulse Discharge Current (8/20 μs) Max (KA)		Normal Alternating Discharge Current(A)		Impulse Life (10/1000μs) (100A)	DC Holdover Voltage (V)	Insulation Resistance Min (GΩ)	Cp Max (pf)
	100V/s	100V/μs	1000V/μs	1 time	10 times	50Hz, 1sec	Single 9cycles	times	<150ms	Note2	1MHZ
CG2R070L-T6	70 ±20%	700	800	10	5	5	15	300	52	1	1
CG2R075L-T6	75 ±20%	700	800						52	1	1
CG2R090LT6	90 ±20%	600	700						52	1	1
CG2R120L-T6	120 ±20%	600	700						52	1	1
CG2R130L-T6	130 ±20%	600	700						52	1	1
CG2R145L-T6	145 ±20%	600	700						52	1	1
CG2R230L-T6	230 ±20%	600	700						80	1	1
CG2R250L-T6	250 ±20%	600	700						80	1	1
CG2R300L-T6	300 ±20%	700	900						150	1	1
CG2R350L-T6	350 ±20%	700	900						150	1	1
CG2R400L-T6	400 ±20%	800	1000						150	1	1
CG2R470L-T6	470 ±20%	900	1100						150	1	1
CG2R600L-T6	600 ±20%	1300	1500	5	2.5	2.5	5	300	150	1	1
CG2R800L-T6	800 ±20%	1500	1700						150	1	1
CG2R1000L-T6	1000 ±20%	1600	1800	3	1.5	2	4	300	150	1	1
CG2R1200L-T6	1200 ±20%	1800	2000						150	1	1
CG2R1400L-T6	1400 ±20%	2200	2400						150	1	1
CG2R1600L-T6	1600 ±20%	2400	2600						150	1	1
CG2R2000L-T6	2000 ±20%	2800	3000						150	1	1
CG2R2500L-T6	2500 ±20%	3300	3500						150	1	1
CG2R3000L-T6	3000 ±20%	3800	4000						150	1	1
CG2R3500L-T6	3500 ±20%	4300	4500						150	1	1
CG2R3600L-T6	3600 ±20%	4400	4600	150	1	1					

- 1) At delivery AQL 0.65 level II, DIN ISO 2859.
- 2) In ionized mode.
- 3) Tests according to ITU-T Rec. K. 12 and UL 497B.

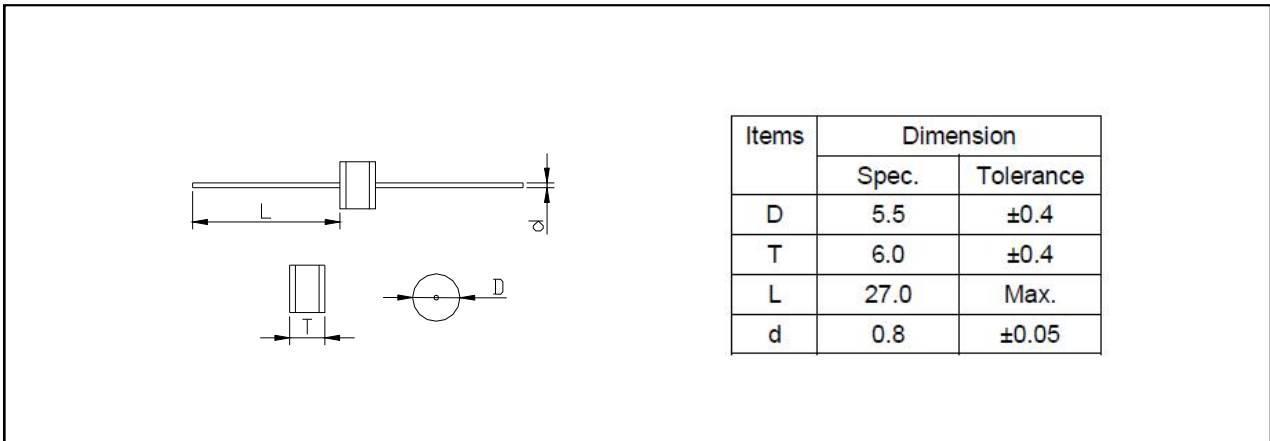
## Heat Characteristic

Emblem	Parameter	Numerical value	Unit
T <sub>J</sub>	Task scope	-40~+150℃	℃
T <sub>S</sub>	Temperature save up scope	-65~+150℃	℃
R <sub>θJA</sub>	Heat resistance	90	℃/W

### Direct current VBO test circuit



### Package Dimensions



### Cautions and warnings

- Gas Discharge Tubes must not be operated directly in power supply networks.
- Gas Discharge Tubes may become hot in case of longer periods of current stress (danger of burning).
- Gas Discharge Tubes may be used only within their specified values. In case of overload, the head contacts may fail or the component may be destroyed.
- Damaged Gas Discharge Tubes must not be re-used.

### Ordering information

Order code	Package	Packaging option	Base quantity	Packaging specification
CG2RxxxL-T6 Series	φ5.5*6		1000pcs / BOX	EIA STD RS-481

### Revision history

Date	Revision	Changes
23-May-2020	1.0	Initial release

## CAUTION / WARNING

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