

为您的产品保驾护航

PRODUCT DATASHEET

Gas Discharge Tubes

JTA28G/JTA28D/JTN28G/JTN28D

Description

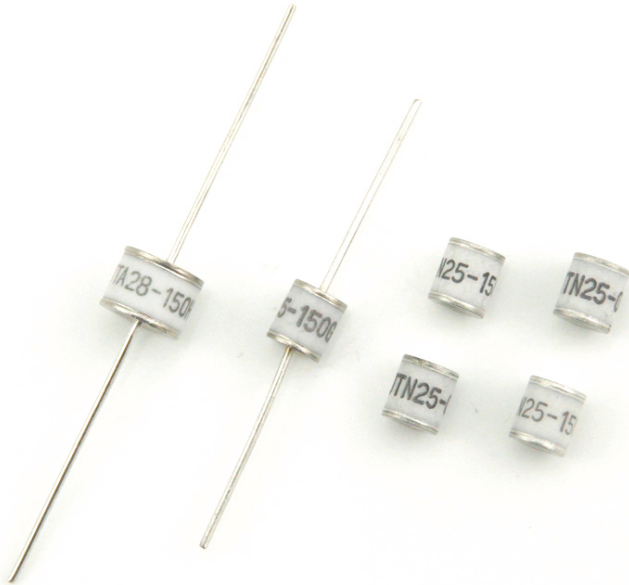
Gas discharge tubes (GDT) use noble gasses enclosed in ceramic tubes to provide an alternate circuit path for voltage spikes. The ceramic envelope and with nickel connectors allow for high loads and Ruilon offers products that function at 20KA, 40KA, 50KA, 60KA, 100KA & 150KA. The breakdown voltages of the devices have a wide range (up to 20% tolerance). Major applications are high frequency telecommunication lines, stations, security systems, HID and high quality Surge Protection Devices (SPD).

Features

- RoHS & HF compliant
- Size: 8.0mm x 8.0mm
- DC Spark-over voltage: 75~3000V
- Stable breakdown voltage.
- High insulation resistance.
- Low capacitance (<1pF)
- High holdover voltage.
- Large absorbing transient current capability.
- Low Capacitance
- Micro-Gap Design

Applications

- Cable Modem
- xDSL
- Set-Top Box
- Satellite and CATV equipment
- Power supplier
- Consumer electronics
- General telecom equipment



Product Identification

JT A 2 8 -1000 G

G = Surge Rating

Blank=0.5kA, B=2kA, D=3kA,
 G=5kA, H=10kA, K=20kA,
 M=40kA, P=60kA

1000 = DC Spark-over Voltage

1000V

8 = 8mm Diameter

2 = 2 Electrode Device

A = Lead Configuration

A=Axial Leads

N=No Leads

S=Surface Mount

T=T-shaped Leads

JT = JDT Gas Discharge Tube

Electrical Characteristics

Part Number	DC Spark-over Voltage	Maximum Impulse Breakdown Voltage		Max. Impulse Discharge Current (8/20 μ s)		Impulse Life (10/1000 μ s) 300 A	Normal Alternating Discharge Current		DC Holdover Voltage <150ms	Minimum Insulation Resistance (G Ω)	Maximum Capacitance (1MHz) (pF)
		1kV/ μ S	1KV/ μ S	1 times	10 times		50Hz 1Sec	Single 9 Cycles			
		(V)	(V)	(KA)			Times	(A)			
JTA28-1000G	1000 \pm 20%	1300	1400	8	5	100	5	5	500	1	1.5
JTA28-1400G	1400 \pm 20%	2100	2200	8	5	100	5	5	500	1	1.5
JTA28-1600G	1600 \pm 20%	2300	2400	8	5	100	5	5	500	1	1.5
JTA28-2000G	2000 \pm 20%	2700	2800	8	5	100	5	5	500	1	1.5
JTA28-2500G	2500 \pm 20%	3500	3600	8	5	100	5	5	500	1	1.5
JTA28-2700D	2700 \pm 20%	3600	3800	5	3	300	3	3	1000	1	1.5
JTA28-3000D	3000 \pm 20%	4100	4200	5	3	300	3	3	1000	1	1.5
JTA28-3500D	3500 \pm 20%	4900	5000	5	3	100	2.5	2.5	1000	1	1.5
JTA28-4000D	4000 \pm 20%	5300	5500	5	3	100	2.5	2.5	1000	1	1.5
JTA28-4500D	4500 \pm 20%	5800	6000	5	3	100	2.5	2.5	1000	1	1.5
JTA28-5000D	5000 \pm 20%	6000	6400	5	3	100	2.5	2.5	1000	1	1.5
JTA28-6000D	6000 \pm 20%	7000	7800	5	3	100	2.5	2.5	1000	1	1.5
JTN28-1000G	1000 \pm 20%	1300	1400	8	5	100	5	5	500	1	1.5
JTN28-1400G	1400 \pm 20%	2100	2200	8	5	100	5	5	500	1	1.5
JTN28-1600G	1600 \pm 20%	2300	2400	8	5	100	5	5	500	1	1.5
JTN28-2000G	2000 \pm 20%	2700	2800	8	5	100	5	5	500	1	1.5
JTN28-2500G	2500 \pm 20%	3500	3600	8	5	100	5	5	500	1	1.5
JTN28-2700D	2700 \pm 20%	3600	3800	5	3	300	3	3	1000	1	1.5
JTN28-3000D	3000 \pm 20%	4100	4200	5	3	300	3	3	1000	1	1.5
JTN28-3500D	3500 \pm 20%	4900	5000	5	3	100	2.5	2.5	1000	1	1.5
JTN28-4000D	4000 \pm 20%	5300	5500	5	3	100	2.5	2.5	1000	1	1.5
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JTN28-5000D	5000 \pm 20%	6000	6400	5	3	100	2.5	2.5	1000	1	1.5
JTN28-6000D	6000 \pm 20%	7000	7800	5	3	100	2.5	2.5	1000	1	1.5

DC Spark-over Voltage	DC Measuring Voltage
600-1000V	250V
1400-2000V	500V
2500-6000V	1000V

Soldering Parameters

Reflow Condition Pb-Free Assembly

Preheat

-Temperature Min($T_{s\ min}$)	150°C
-Temperature Max($T_{s\ max}$)	200°C
-Time($T_{s\ min}$ to $T_{s\ max}$)	60~180 seconds

Average Ramp-Up Rate (Liquidus Temp(T_L) to peak)	3°C/second max
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$T_{s(max)}$ to T_L - Ramp-up Rate	5°C/second max
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Reflow:

- Temperature (T_L) (Liquidus)	217°C
- Time (min to max) (t_s)	60~150 seconds

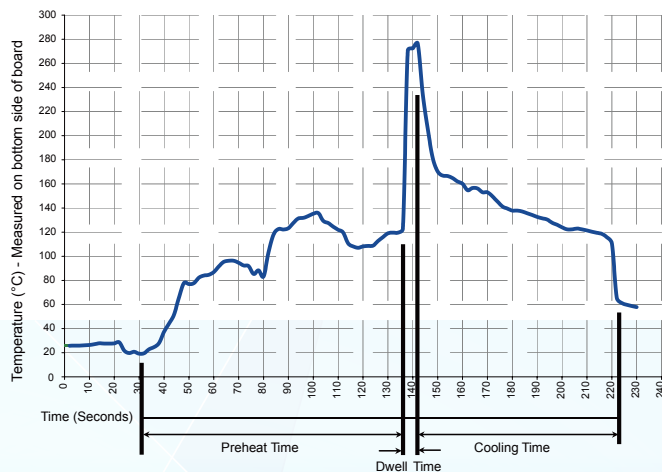
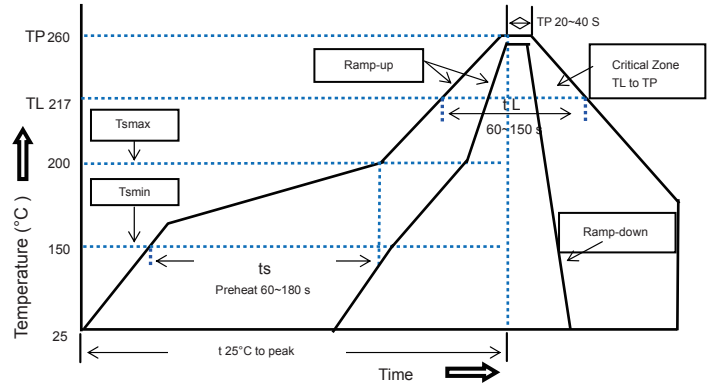
Peak Temperature(T_p)	260 ^{+0/-5} °C
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Time within 5°C of actual peak Temperature (t_p)	10~30 seconds
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Ramp-Down Rate	6°C/second max
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Time 25°C to Peak Temperature	8 minutes max
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Do not exceed	260°C
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Soldering Parameters

Recommended Process Parameters:

Wave Parameter	Lead-Free Recommendation
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Preheat:

(Depends on Flux Activation Temperature) (Typical Industry Recommendation)

Temperature Minimum: 100° C

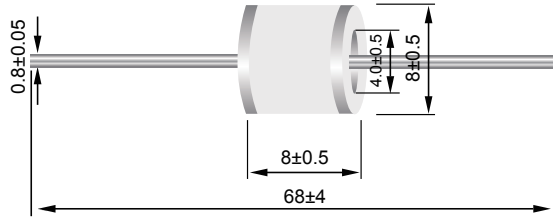
Temperature Maximum: 150° C

Preheat Time: 60-180 seconds

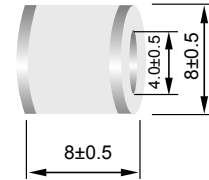
Solder Pot Temperature: 260° C Maximum

Solder Dwell Time: 2-5 seconds

Dimension unit:(mm)



(A)Series

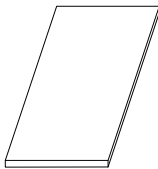


(N)Series

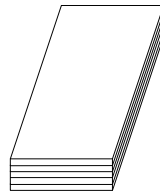
Packaging Taping

For " T " Type Axial Lead Items

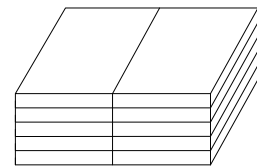
Plastic Tray
(252×135×10mm)



Inner Box
(270×145×50mm)



Outside Box
(310×280×275mm)



100 PCS/ Plastic Tray

500 PCS/ Box

5,000 PCS/ Carton

Core and ' S ' Type Items

