Gas Discharge Tube (GDT) Data Sheet

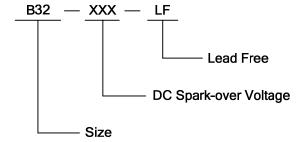
Features

- High insulation resistance.
- Low capacitance (≤0.5pF).
- 500A 8/20µs maximum surge current capacity in accordance with IEC61000-4-5.
- 4KV 10/700µs maximum surge rating in accordance with ITU-TK.21
- Surface mounted gas arrester
- Micro-Gap Design
- Size 3216(1206)
- Storage and operating temperature: -40°C ~ +85°C
- Meets MSL level 1, per J-STD-020
- Safety certification: UL: E244458

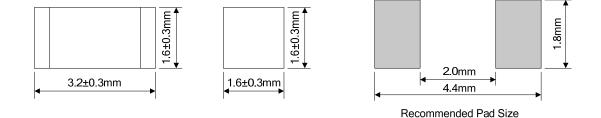
Applications

- Repeaters, Modems.
- Telephone Interface, Line cards.
- Data communication equipment.
- Line test equipment

Part Number Code



Dimensions









Electrical Characteristics Maximum Nominal DC Minimum Impulse Maximum Impulse Insulation Spark-over Spark-over Capacitance Discharge Impulse Voltage Resistance Withstanding Part Voltage Current Voltage Number Test 100V/s 1000V/µs (1MHz) 8/20µs Capacity Voltage (MΩ) DC(V) (V) (V) (pF) (A) B32-150-LF 150±30% 750 50 1000 0.5 500 B32-230-LF 100 1000 500 230±30% 950 0.5 B32-300-LF 300±30% 950 100 1000 0.5 500 10/700µs B32-350-LF 350±30% 950 100 1000 0.5 500 4kV ±5 Times 500 B32-400-LF 400±30% 1050 100 1000 0.5 B32-420-LF 100 1000 500 420±30% 1050 0.5 B32-470-LF 1050 100 1000 500 470±30% 0.5

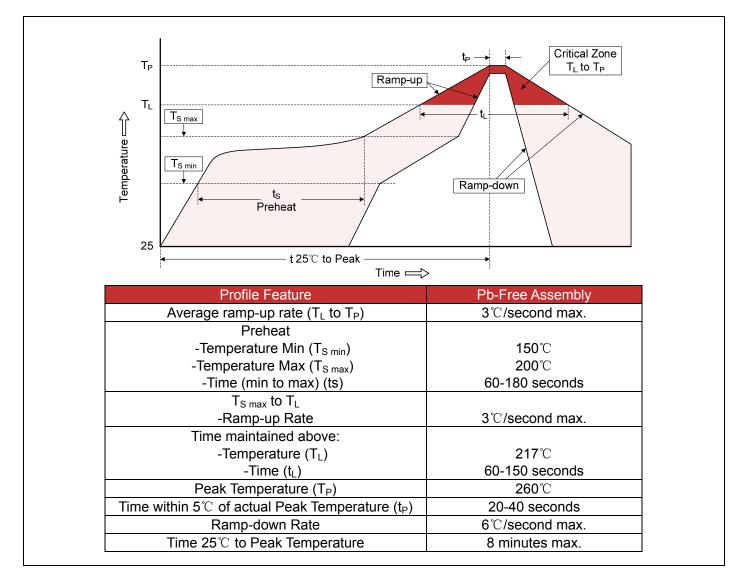
Electrical Ratings

Items	Test Condition/Description	Requirement	
DC Spark-over Voltage	The voltage is measured with voltage ramp dv/dt=100V/s.		
Maximum Impulse Spark-over Voltage	The maximum impulse spark-over voltage is measured with voltage ramp dv/dt=1000V/µs.		
Insulation Resistance	The resistance of gas tube shall be measured between two electrodes.		
Capacitance	The capacitance of gas tube shall be measured between two electrodes. Test frequency: 1MHz	To meet the specified	
Impulse Discharge Current	Maximum 8/20µs surge current that can be applied between two electrodes, 5 positive and 5 negative surges, with 3 minutes interval time, without causing the DC spark-over voltage to change more than 30% from its initial value.	value	
Impulse Withstanding Voltage	The maximum 10/700µs surge that can be applied to the Gas Tube, 5 positive and 5 negative surges, with 1 minute interval time, without causing the DC spark-over voltage to change more than 25% from its initial value.		

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Items	Test conditions / Methods	Standard	
Cold Resistance	Measurement after -40°C/1000 HRS & normal temperature/2 HRS.	Features are conformed to rated spec.	
Heat Resistance	Measurement after 125℃/1000 HRS & normal temperature/2 HRS.		
Humidity Resistance	Measurement after humidity 90~95℃(45℃) /1000 HRS & normal temperature/2 HRS.		
Temperature Cycle	10 times repetition of cycle -40°C/30min →normal, temp/2 min →125°C/30min, measurement after normal temp/2 HRS.		
Solder Ability	Apply flux and immerse in molten solder $230\pm5^{\circ}$ for 3sec up to the point of 1.5mm from body. Check for solder adhesion.	Lead wire is evenly covered by solder.	
Solder Heat	Measurement after lead wire is dipped up to the point of 1.5mm from body into $260\pm5^{\circ}$ C solder for 10sec.	Conformed to rated spec.	

Recommended Soldering Conditions



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Packaging

Таре	Items	Dimension (mm)	
		Spec.	Tolerance
	W	8.00	±0.20
	P0	4.00	±0.20
P0 P2	P1	4.00	±0.10
	P2	2.00	±0.10
	D0	1.55	±0.05
	D1	1.00	±0.05
	E	1.75	±0.10
	F	3.50	±0.10
	A0	2.00	±0.10
	K0	2.00	±0.10
	В0	3.80	±0.10
	tO	0.30	±0.10
Reel → + ^t	D	170.00	±1.00
	d	13.00	±0.50
	L	12.00	±0.50
	t	1.20	±0.20
	Quantity: 2500pcs		