

Surface Mount, 2-Electrode Gas Discharge Tube B2G8LS HV Series

Descriptions

The Gas Discharge Tube (GDT) operates as a symmetrical voltage-dependent switch. Features as very high surge current handling capability, very high insulation resistance and ultra-low capacitance meet almost perfectly all requirements made on a protective element.

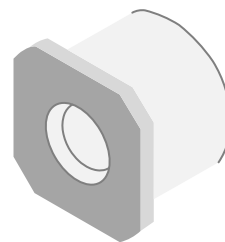
The B2G8LS HV Series are 2-pole GDTs designed for protection of power lines. Low insertion loss is also perfectly suited to broadband equipment applications.

Features

- 2-electrode arrester
- Very small size
- Rugged Ceramic-Metal construction
- Stable performance over life
- Extremely low capacitance ($\leq 1.5\text{pF}$)
- High insulation resistance

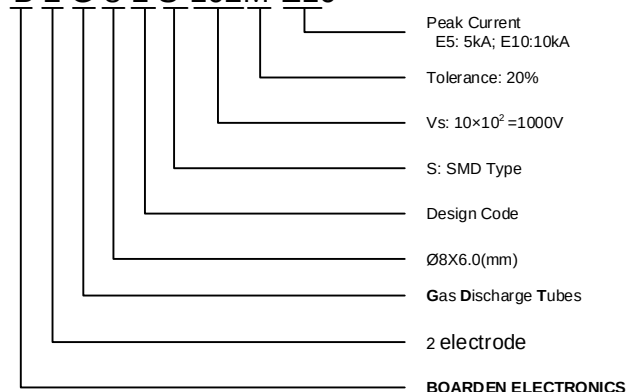
Applications

- PCI cards
- Modem
- Splitter
- Line cards
- Applications with limited space



Part Numbering System

B 2 G 8 L S-102M-E10

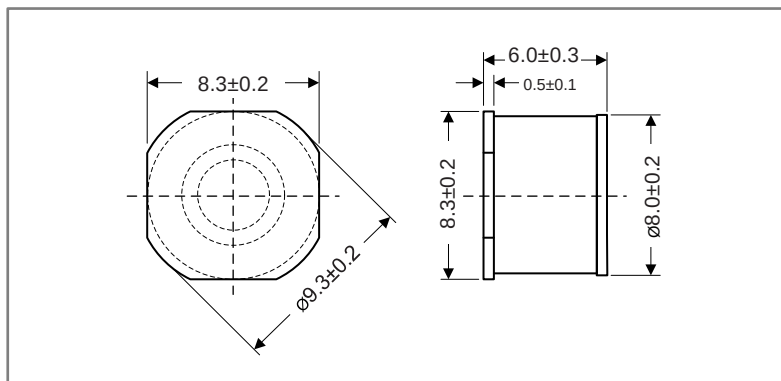


Order information

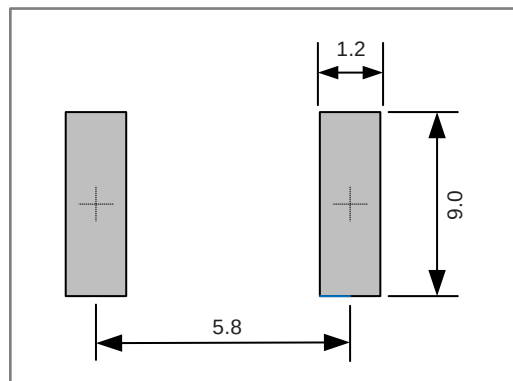
Device	Qualities	Size
B2G8LS HV Series	500/R	13 Inch

Product Dimensions (mm)

Dimension



Recommended Pad Size



Electrical Characteristics (TA=25°C unless otherwise noted)

Part Number	V _S ^{1),2)} @100V/s	V _{SS}		Glow Voltage @10mA	IMDC		ACDC	IR ³⁾
		100V/μs	1kV/μs		8/20μs ±5 times	8/20μs 1 time	@50Hz 1s 5 times	
		Max.	Max.		Nom.	Max.	Nom.	
	V	V	V	V	kA	kA	A	GΩ
B2G8LS-102M-E10	1000±20%	1600	1800	160	10	15	10	1
B2G8LS-122M-E10	1200±20%	1800	2000	160	10	15	10	1
B2G8LS-152M-E10	1500±20%	2300	2500	160	10	15	10	1
B2G8LS-182M-E5	1800±20%	2600	2800	160	5	10	5	1
B2G8LS-202M-E5	2000±20%	2800	3000	260	5	10	5	1
B2G8LS-252M-E5	2500±20%	3300	3600	260	5	10	5	1
B2G8LS-272M-E5	2700±20%	3500	3800	260	5	10	5	1
B2G8LS-302M-E5	3000±20%	4000	4200	260	5	10	5	1
B2G8LS-362M-E5	3600±20%	4700	5000	260	5	10	5	1
Capacitance@1MHz.....					≤1.5pF			
Arc voltage at 1A.....					15~30V			
Glow to Arc transition current.....					~0.5A			
Weight.....					~1.35g			
Operation and storage temperature.....					-40 ~ +90°C			
Climatic category (IEC 60068-1).....					40/90/21			
Marking.....					L xxx yy xxx -Nominal voltage; yy -Production year			

1) At delivery AQL 0.65 level II, DIN ISO 2859

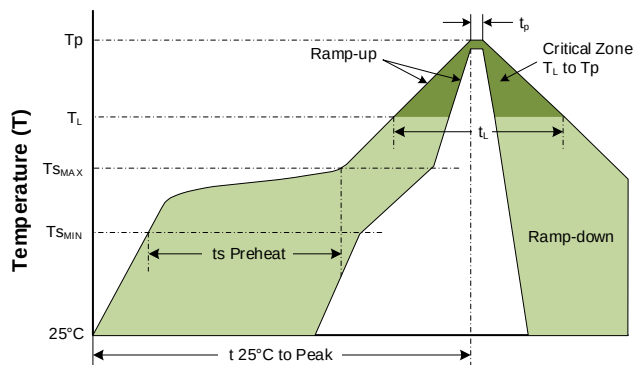
2) In ionized mode

3) Insulation resistance measuring voltage at 100Vdc

Terms in accordance with ITU-T Rec.K.12, IEC 61643-311, GB/T 9043

Soldering Parameters

Profile Feature	Lead-Free Assembly
Average Ramp-up Rate ($T_{S_{MAX}}$ to T_p) Average Ramp-down Rate (T_p to T_L)	3°C/second max. 6°C/second max.
Preheat • Temperature Min ($T_{S_{MIN}}$) • Temperature Max ($T_{S_{MAX}}$) • Time (t_s Preheat)	150°C 200°C 60-180 seconds
Time maintained above: • Temperature (T_L) • Time (t_L)	217°C 60-150 seconds
Peak/Classification Temperature • Temperature (T_p)	260 ^{+0/-5} °C
Time within 5°C of actual Peak Time (t_p)	20-40 seconds
Time 25°C to peak Temperature	8 minutes max
Do not exceed	280 °C



Flow/Wave Soldering (Solder Dipping)

Peak Temperature :	265 °C
Dipping Time :	10 seconds
Soldering :	1 time

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.

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Specifications are subject to change without notice.

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