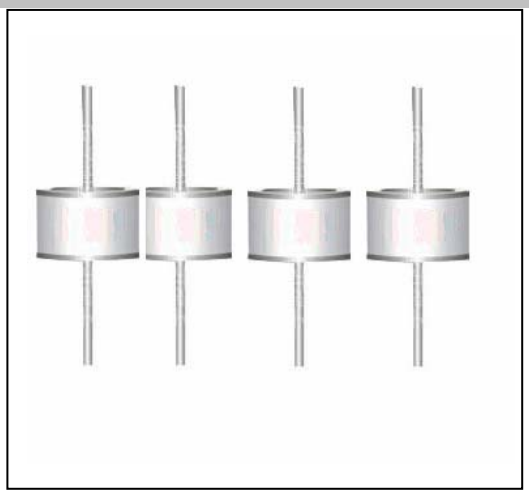
GDT Series

Surge Arresters S8GXXXL ROHS

Description



Gas-filled surge arresters are classical components for protecting the installations of the telecommunications. Surge arresters are also essential for protecting the fax machines and modems used for data transmission and increasingly equipped with sophisticated electronics. They are thus fitted at the input of the power supply system together with varistors and at the connection points to telecommunication lines. They have become equally indispensable for protecting base stations in mobile telephone systems as well as extensive cable television (CATV) networks with their repeaters and distribution systems.

These protective components are also indispensable in other sectors:

- In AC power transmission systems, they are often used with current-limiting varistors
- In consumer electronic terminals such as back-projection TV sets and computer monitors
- In air-conditioning equipment

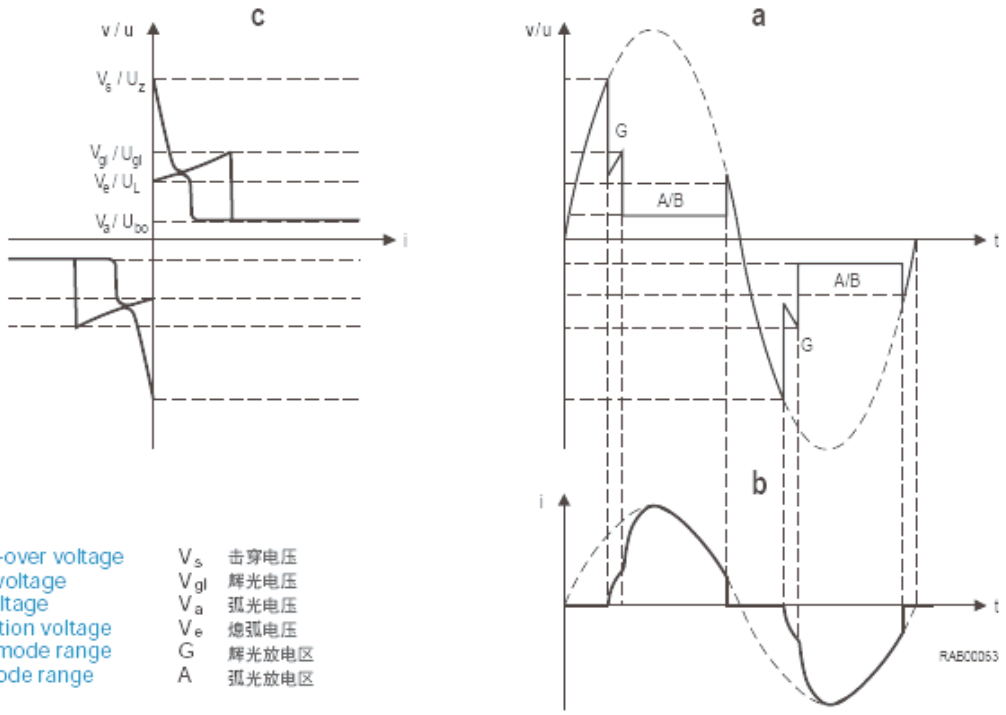
The development of our surge arresters is based on international standards such as ITU-T, K.12, IEC 61643-311 (EN 61643-311), IEC 61643-11 (EN 61643-11), RUSPE-80/IEEE 465.1 and DIN VDE 0845, Part 2. They are also used to enable modules/equipment to meet various regulatory requirements including ITU K20/K21, IEC61000-4-5, Telcordia GR1361/GR974/1089.

Compared to surge suppression using other technologies, surge arrester possess fast response speed,low capacitance and high current handling capability.

Surge arrester:

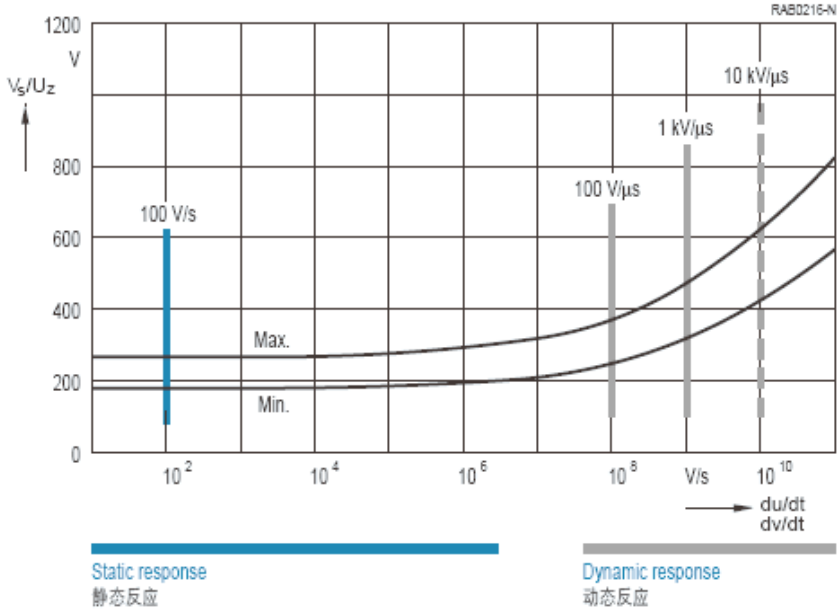
- Cannot be damaged by voltage
- Eliminate hysteresis and heat dissipation typically found with clamping devices
- Eliminate voltage overshoot caused by fast-rising transients
- Are non-degenerative
- Will not fatigue
- Have low capacitance, making them ideal for high-speed transmission equipment

V-I Characteristics



V_s	Spark-over voltage	V_s	击穿电压
V_{gl}	Glow voltage	V_{gl}	辉光电压
V_a	Arc voltage	V_a	弧光电压
V_e	Extinction voltage	V_e	熄弧电压
G	Glow mode range	G	辉光放电区
A	Arc mode range	A	弧光放电区

Typical Response Behavior



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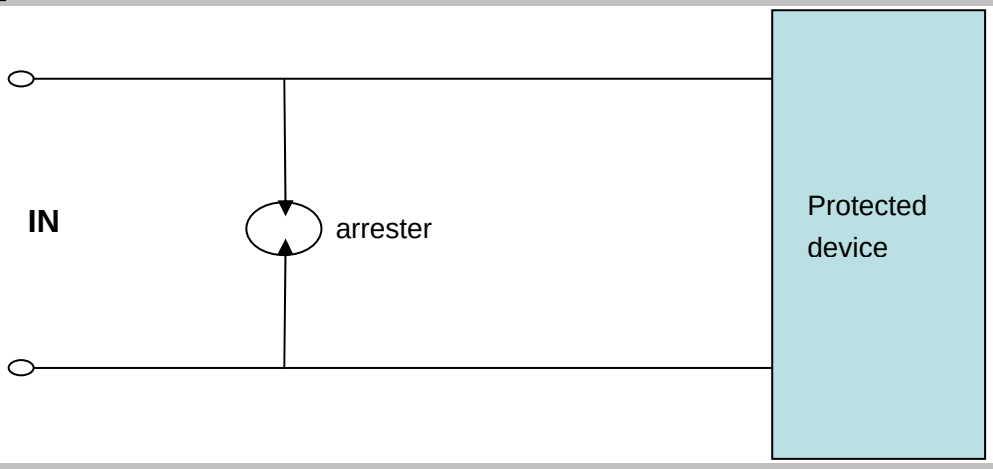
Typical Applies



Description of Part Number

S 8G XXX L

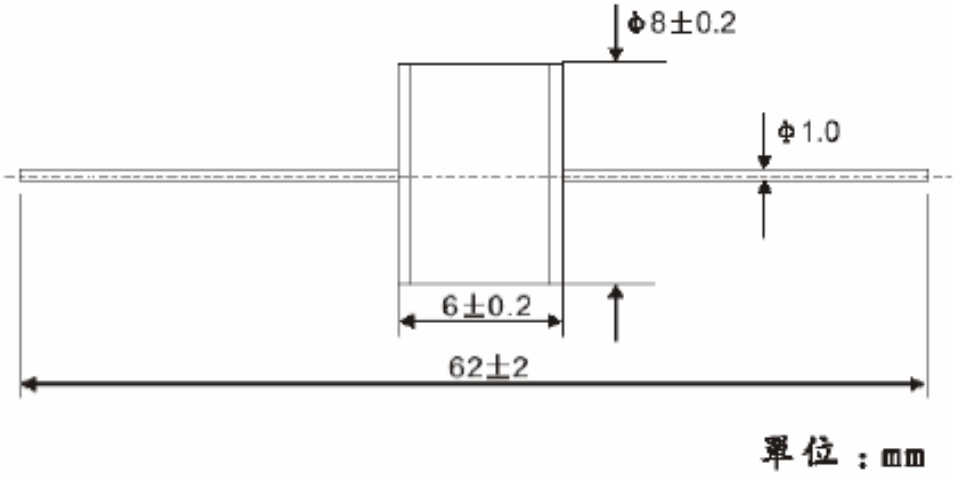
Senchip
Microelectronics

Type
5G = Ø5.5×6(mm)
8G = Ø8×6(mm)
8J = Ø8×8(mm)

DC Breakdown Voltage
XXX V

Discharge Class(8/20μS)
X=3kA
L=5kA
M=10kA
H=20kA

Dimensions



Electrical Characteristics

Part Number	DC Spark-over Voltage (100V/S)	Tolerance of Vs	Impulse Spark-over Voltage (1kV/μS)	Alternating Discharge Current (50HZ)	Impulse Discharge Current (8/20μS)	Insulation Resitance	Capacitance	Device Marking Code
	V	%	V	A	KA	Ω	pF	
S8G075L	75	±25	≤500 ≤400	5	5	$\geq 10^9$	≤2	2R 75
S8G090L	90	±20	≤500 ≤400	5	5	$\geq 10^9$	≤2	2R 90
S8G150L	150	±20	≤500 ≤450	5	5	$\geq 10^9$	≤2	2R 150
S8G230L	230	±20	≤500 ≤450	5	5	$\geq 10^9$	≤2	2R 230
S8G350L	350	±20	≤650 ≤500	5	5	$\geq 10^9$	≤2	2R 350
S8G470L	470	±20	≤800 ≤650	5	5	$\geq 10^9$	≤2	2R 470
S8G600L	600	±20	≤1100 ≤950	5	5	$\geq 10^9$	≤2	2R 600
S8G800L	800	±20	≤1300 ≤1050	5	5	$\geq 10^9$	≤2	2R 800

* For surge ratings, see table below.

Notes: All measurements are made at an ambient temperature of 25℃. I_{PP} applies to -40℃ through +90℃ temperature range.

Summary Of Packing Options

Package Type	Description	Packing Quantity	Industry Standard
Φ8×6 (mm)	DIP	100 PCS	N/A