

Features

- Approximately zero leaking current before clamping voltage
- Less decay at on/off state
- High capability to withstand repeated lightning strikes
- Low electrode capacitance(≤0.8pF) and high isolation(≥100MΩ)
- Bilateral symmetrical
- Temperature, humidity and lightness insensitive
- RoHS compliant
- Meets MSL level 1, per J-STD-020
- Operating temperature:-40°C~+85°C
- Storage temperature: -40°C~+125°C

Applications

- Power Supplies
- Motor sparks eliminating
- Relay switching spark absorbing
- Data line pulse guarding
- Telephone/Fax/Modem

- High frequency signal transmitters/receivers
- Satellite antenna
- Radio amplifiers
- Alarm systems
- Cathode ray tubes in Monitors/TVs

Part Number Code



Dimensions

	Decommonded Ded Loveut	Symbol	Dimensions(mm)
	Recommended Pad Layout	L	3.4±0.5
		D	1.4±0.5
		d	1.3±0.5
		t	0.4±0.2



Electrical Characteristics (T_A=25℃)

Part Number	DC Spark-over Voltage	Minimum Insulation Resistance		Maximum Capacitance (1KHz-6V _{MAX})	Surge Current Capacity
Number	Vs	Test Voltage	IR _{онм}	С	@8/20µs
GS14-141NM	140V±30%	50V	100ΜΩ	0.8pF	300A
GS14-201MM	200V±20%	100V	100ΜΩ	0.8pF	300A
GS14-301MM	300V±20%	100V	100ΜΩ	0.8pF	300A

Test Methods and Results

Items	Test Method	Standard	
DC Spark-over Voltage	the DC spark-over voltage ascend up within 500V/s. Test current is 0.5mA max.	Meet specified value	
Minimum Insulation Resistance	across the terminal at regular voltage. But the test voltage doesn't over the DC spark-over voltage.	Meet specified value	
Maximum Capacitance	by applying a voltage of less than 6V (at 1KHz) between terminals.	Meet specified value	
Surge Current Capacity	1.2/50µs & 8/20µs,300A, ±5 times, interval 60s.	No crack and no failures	
Cold Resistance	-40 \pm 3°C(1000hrs) / room temp., normal humidity(4hrs) , measure the properties.	Features are conformed to rated spec.	
Heat Resistance	$125\pm2^{\circ}C(1000hrs)$ / room temp., normal humidity(4hrs) , measure the properties.	Features are conformed to rated spec.	
Humidity Resistance	After 85±2℃, 85% RH (1000hrs)/room temp., normal humidity(4hrs) cycle, measure the properties.	Features are conformed to rated spec.	
Temperature Cycle	25 times repetition of cycle -40±3℃(30Min.), room temp., (4 Min.), 125±2℃(30 Min.), room temp., normal humidity (4hrs).	Features are conformed to rated spec.	



Recommended Soldering Conditions



2) Temperature difference in high temperature part should be within 110°C.

3) After soldering, do not force cool, allow the parts to cool gradually.

Cleaning

When using ultrasonic cleaning, the board may resonate if the output power is too high. Since this vibration can cause cracking or a decrease in the adherence of the termination, we recommend that you use the conditions below.

Frequency: 40kHz max.

Output power: 20W/liter

Cleaning time: 5 minutes max.



Packaging Specification

