

#### **Features**

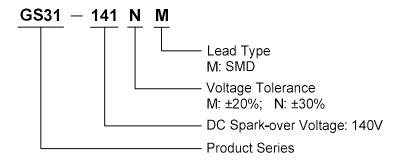
- Approximately zero leaking current before clamping voltage
- Less decay at on/off state
- High capability to withstand repeated lightning strikes
- Low electrode capacitance(≤0.8pF) and high isolation(≥100MΩ)
- Bilateral symmetrical
- Temperature, humidity and lightness insensitive
- RoHS compliant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

## **Applications**

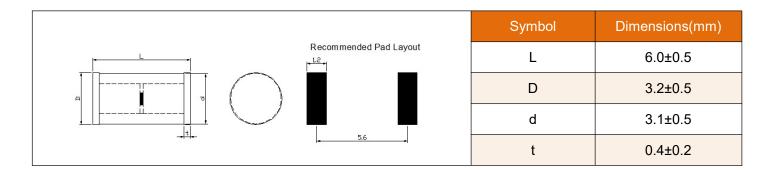
- Power Supplies
- Motor sparks eliminating
- Relay switching spark absorbing
- Data line pulse guarding
- Telephone/Fax/Modem

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

## Part Number Code



## **Dimensions**



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# Electrical Characteristics (T<sub>A</sub>=25℃)

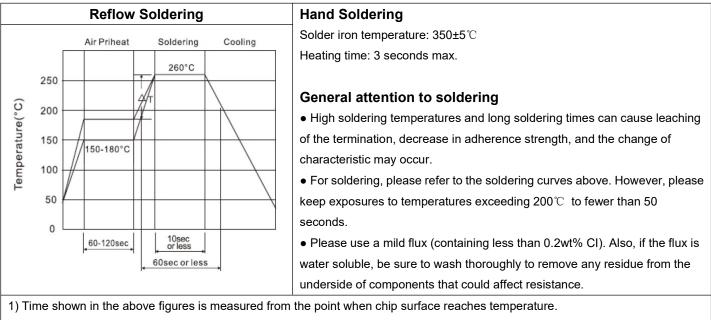
Part Number	DC Spark-over Voltage	Minimum Insulation Resistance		Maximum Capacitance (1КНz-6Vмах)	Surge Current Capacity	Surge Voltage Capacity
	Vs	Test Voltage	IR <sub>OHM</sub>	С	@8/20µs	@10/700µs
GS31-141NM	140V±30%	50V	100MΩ	0.8pF	2000A	4000V
GS31-201MM	200V±20%	100V	100MΩ	0.8pF	2000A	4000V
GS31-301MM	300V±20%	100V	100MΩ	0.8pF	2000A	4000V
GS31-401MM	400V±20%	250V	100MΩ	0.8pF	2000A	4000V
GS31-501MM	500V±20%	250V	100MΩ	0.8pF	2000A	4000V
GS31-701MM	700V±20%	250V	100MΩ	0.8pF	2000A	4000V
GS31-102MM	1000V±20%	500V	100MΩ	0.8pF	2000A	4000V

## 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, 2000A, ±5 times, interval 60s.	No crack and no failures	
Surge Voltage Capacity	10/700µs, 4000V, ±5 times, interval 60s.	No crack and no failures	
Cold Resistance	-40 $\pm$ 3 $^{\circ}$ C(1000hrs) / room temp., normal humidity(4hrs) , measure the properties.	Features are conformed to rated spec.	
Heat Resistance	125±2 $^\circ\!\!\mathbb{C}(1000hrs)$ / room temp., normal humidity(4hrs) , measure the properties.	Features are conformed to rated spec.	
Humidity Resistance	After 85±2°C, 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**

Таре	Symbol	Dimension (mm)
	W	16.0±0.2
	P0	4.0±0.2
<del>**</del>     <del>* −</del>	P1	8.0±0.1
	P2	2.0±0.1
	D0	Φ1.5±0.1
	E	1.75±0.1
	F	7.5±0.1
	A0	3.5±0.1
	B0	6.5±0.1
	K0	3.5±0.1
	t	0.5±0.1
Reel	D0	13.3±2.0
	D1	100.0±2.0
	D2	330.0±2.0
	W	16.5±0.5
	Quantity: 2000p	ocs

单击下面可查看定价,库存,交付和生命周期等信息

>>Liown(里阳半导体)