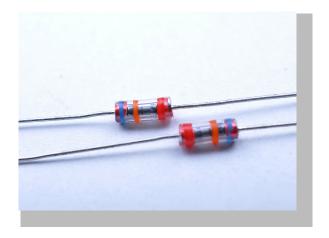


Features

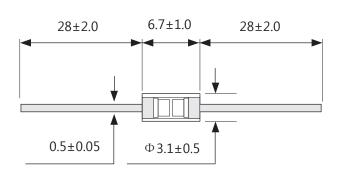
- RoHS compliant.
- · Bilateral symmetrical.
- · Less decay at on/off state.
- Approximately zero leaking current before clamping voltage
- High capability to withstand repeated lightning strikes.
- Low electrode capacitance($\leq 1.0 pF$) and high isolation ($\geq 100 M\Omega$).
- Temperature, humidity and lightness insensitive.
- Working temperature range: : -40°C ~ +85°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

Dimensions





Electrical Characteristics

Type Number	DC Spark-Over Voltage	Minimum Insulation Resistance		Maximum Capacitance (1kHz-6Vmax)	Surge Current Capacity	Surge Life Test
	Vs	R	Test Voltage	CJ	8/20µs	10x700µs
	V	ΜΩ	V	pF	Α	
SPG32-141	140±30%	100	50	1	3000	6000V 10 times
SPG32-201	200±20%	100	50	1	3000	6000V 10 times
SPG32-301	300±20%	100	100	1	3000	6000V 10 times
SPG32-401	400±20%	100	250	1	3000	6000V 10 times
SPG32-501	500±20%	100	250	1	3000	6000V 10 times
SPG32-601	600±20%	100	250	1	3000	6000V 10 times
SPG32-102	1000±20%	100	500	1	3000	6000V 10 times
SPG32-122	1200±20%	100	500	1	3000	6000V 10 times
SPG32-152	1500±20%	100	500	1	3000	6000V 10 times
SPG32-182	1800±20%	500	500	1	3000	6000V 10 times
SPG32-202	2000±20%	500	500	1	3000	6000V 10 times
SPG32-242	2400±20%	500	500	1	3000	6000V 10 times
SPG32-302	3000±20%	500	500	1	3000	6000V 10 times
SPG32-362	3600±20%	500	500	1	3000	6000V 10 times
SPG32-452	4500±20%	500	500	1	3000	6000V 10 times



Test Methods And Results

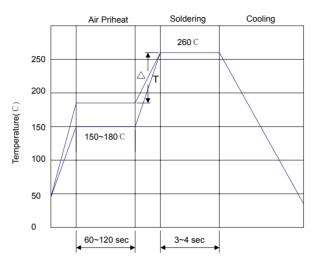
Items	Test Method			Standard	
DC Spark-over Voltage	applied DC voltage	discharge voltage (Vs) by gradually inc le. Test current is 0.5mA max. And the lds up within 100V/s(Vs<1000V) or 500			
Insulation Resistance		lation resistance across the terminal at est voltage doesn't over the DC spark-c	Meet specified value.		
Capacitance		trostatic capacitance by applying a volta KHz) between terminals.			
Static Life	10KV with 1500pt 200 times at an in	f condenser is discharged through 0Ω reterval of 10sec.	△ Vs/Vs ≤30% Characteristics of other items must meet the specified value.		
	±5 times, each tin	ulse current for specified current applie ne interval 60 seconds. Thereafter, oute be visually examined.			
	Туре	Type Impulse current			
Surge Current Capacity	Vs < 400V	1.2/50µs & 8/20µs, 3000A		No crack and no failures	
	Vs ≥ 400V	1.2/50μs & 8/20μs, 3000A, electrically connected with a resistor (1~2 Ω).			
Cold Resistance	Measurement after HRS.	er -40°C /1000 HRS & normal temperat	Features are conformed to rated spec.		
Heat Resistance	Measurement after HRS.	er 125°C /1000 HRS & normal temperal			
Humidity Resistance	Measurement after normal temperature	er humidity 90~95 °C (45 °C) /1000 HR re/2 HRS.			
Temperature Cycle		n of cycle -40 ℃ /30min →normal, tem neasurement after normal temp/2 HRS			
Solder Ability		merse in molten solder 230±5°C for 3se n from °C body. Check for solder adhes	Lead wire is evenly covered by solder.		
Solder Heat		er lead wire is dipped up to the point of 0±5 °C solder for 10sec.	Conformed to rated spec.		
Pull Strength	Apply 0.5kg load	for 10sec.	Lead shall not pull out to snap.		
Flexural Strength		the point of 2mm from body under 0.25 ginal point.Repeat 1 time.			

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Recommended Soldering Conditions

Flow Soldering Conditions



- 1) Time shown in the above figures is measured from the point when chip surface reaches temperature.
- 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.

Hand Soldering

Solder iron temperature: 350±5 ℃ Heating time: 3 seconds max.

General attention to soldering

- High soldering temperatures and long soldering times can cause leaching of the termination, decrease in adherence strength, and the change of characteristic may occur.
- For soldering, please refer to the soldering curves above. However, please keep exposures to temperatures exceeding 200 °C to fewer than 50 seconds.
- Please use a mild flux (containing less than 0.2wt% CI). Also, if the flux is water soluble, be sure to wash thoroughly to remove any residue from the underside of components that could affect resistance.

Cleaning

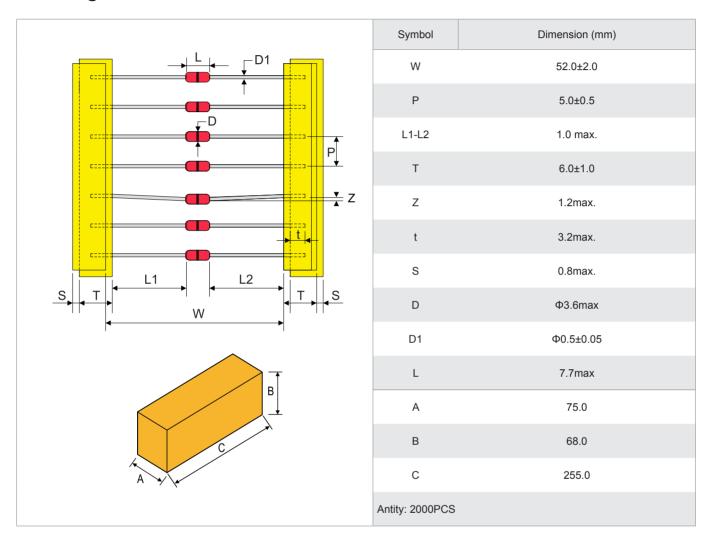
When using ultrasonic cleaning, the board may resonate if the output power is too high. Since this vibration can cause cracking or a decrease in the adherence of the termination, we recommend that you use the conditions below.

Frequency: 40kHz max.
Output power: 20W/liter
Cleaning time: 5 minutes max.

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Ordering Information



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