

DESCRIPTION

The SG3216 series GDT offers high surge ratings in a miniature package. It's designed for surface mounting on PCB with size $3.2 \times 1.6 \times 1.6$ mm. Special design features provide high levels of protection against fast rising transients in the $100 \text{V}/\mu \text{s}$ to $1 \text{kV}/\mu \text{s}$ range usually caused by lightning disturbances. Low insertionloss is perfectly suited to broadband equipment applications. The capacitance does not vary with voltage , and will not cause operational problems with ADSL2+, where capacitance variation across Tip and Ring is undesirable. For AC Power Cross of long duration, over current protection is recommended.

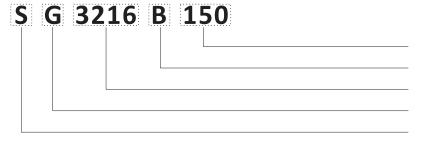
FEATURES

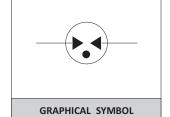
- > RoHS compliant and Lead-free.
- > High insulation resistance.
- > Low capacitance
- > Max Surge current capacity 500A 8/20 us.
- > Surface Mounted Gas Arrester
- > Size 3.2x1.6x1.6mm

APPLICATIONS

- > Communication equipment.
- > Repeaters, Modems.
- > Telephone Interface, Line cards.
- > Data communication equipment.

PART NUMBER CODE





3.2x1.6x1.6mm

DC Breakdown Voltage: 150=150V,200=200V,300=300V,Etc.

Polar: B=Bidirectional,U=Unidirectional
Product Size: 3216=3.2x1.6x1.6mm
Product Line: G=Gas Discharge Tube

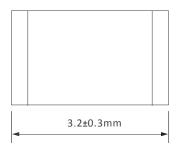
Semiwill Brand

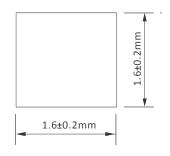
ELECTRICAL CHARACTERISTIC

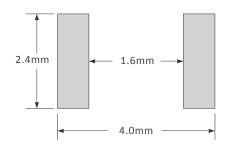
PART NUMBER	DC BREAKDOWN VOLTAGE	TOLERANCE OF Vs	IMPULSE SPARK-OVER VOLTAGE	IMPULSE DISCHARGE CURRENT	INSULAT RESISTA		C@1MHz Max.
	100V/s		1KV/uS Max.	8/20uS Min.	Gohm Min.	DC	
SG3216B150	150V	±30%	700V	500A	1	100V	0.6pF
SG3216B200	200V	±30%	700V	500A	1	100V	0.6pF
SG3216B300	300V	±30%	800V	500A	1	100V	0.6pF
SG3216B350	350V	±30%	800V	500A	1	100V	0.6pF
SG3216B400	400V	±30%	950V	500A	1	100V	0.6pF
SG3216B600	600V	±30%	950V	500A	1	100V	0.6pF



PRODUCT DIMENSIONS







Recommended Pad Size

ENVIRONMENTAL RELIABILITY CHARACTERISTICS

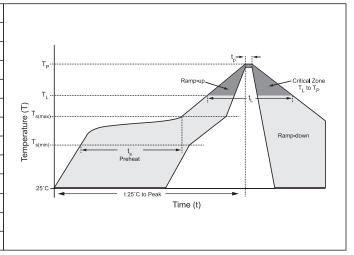
Testing Items	Technical Standards
High Temperature Storage Test	Temperature:85°C;Time:2H
Low Temperature Storage Test	Temperature:-40°C ;Time:2H
Vibration	Frequency:10-500Hz;Amplitude:0.15mm;Time:45min
Resistance of soldering heat	Temperature:260°C;Time of dip soldering:10s,1 me

SOLDERABILITY TEST

Solderability	Solder Pot Temperature:	245±5°C	
	Solder Dwell Time:	4~6 seconds	

REFLOW PROFILE

mperature Min (Ts(min)) mperature Max (Ts(max)	150°C 200°C	
. , , ,	200°C	
	200°C	
ne (min to max) (ts)	60 – 180 secs	
Average ramp up rate (Liquidus Temp (TL) to peak		
Ts(max)to TL - Ramp-up Rate		
mperature (TL) (Liquidus)	217°C	
ne (min to max) (ts)	60 – 150 seconds	
Peak Temperature (T _P)		
Time within 5°C of actual peak Temperature (tp)		
Ramp-down Rate		
Time 25°C to peak Temperature (T _P)		
Do not exceed		
	x)to TL - Ramp-up Rate mperature (TL) (Liquidus) me (min to max) (ts) ure (TP) of actual peak Temperature (tp)	





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