

SG3R08B090 THRU SG3R08B600

Gas Discharge Tube

DESCRIPTION

The SG3R08B Series GDT offers high surge ratings in a miniature package.Low insertion loss 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. This device is extremely robust and are able to divert a 10000A pulse without destruction.

FEATURES

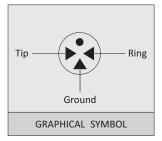
- > Provide ultra-fast response to surge voltage from slow-rising.
- > surge of 100V/s to rapid-rising surge of 1KV/ $\mu s.$
- > Stable breakdown voltage.
- > High insulation resistance.
- > Low capacitance (≤2pF).
- > High holdover voltage.
- > Large absorbing transient current capability.
- > Micro-Gap Design.
- > Size: Ø8.0mm*10.0mm.

APPLICATIONS

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

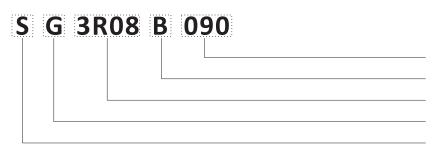
ELECTRICAL CHARACTERISTIC





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	
SG3R08B090	90V	±20%	700V	10000A	1	50V	2.0pF
SG3R08B150	150V	±20%	700V	10000A	1	100V	2.0pF
SG3R08B230	230V	±20%	700V	10000A	1	100V	2.0pF
SG3R08B350	350V	±20%	800V	10000A	1	100V	2.0pF
SG3R08B420	420V	±20%	900V	10000A	1	250V	2.0pF
SG3R08B470	470V	±20%	900V	10000A	1	250V	2.0pF
SG3R08B600	600V	±20%	1000V	10000A	1	250V	2.0pF

PART NUMBER CODE



DC Breakdown Voltage:090=90V;150=150V;etc.

Polar: B=Bidirectional,U=Unidirectional

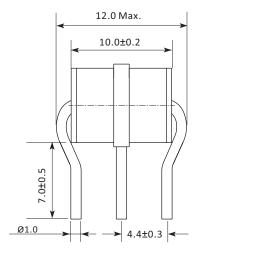
Product Size: 3R08=Ø8.0*10.0mm

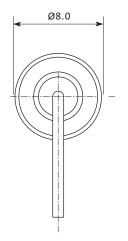
Product Line: G=Gas Discharge Tube

Semiwill Brand



PRODUCT DIMENSIONS





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,1time		

SOLDERABILITY TEST

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

REFLOW PROFILE

	Reflow Condition	Lead-free assembly			
	Temperature Min (Ts(min))	150°C			
Pre Heat	Temperature Max (Ts(max)	200°C	t.+-: :+-		
	Time (min to max) (ts)	60 – 180 secs	T _p .		
Average ramp up rate (Liquidus Temp (TL) to peak		3°C/second max	Ramp-up		
Ts(max)to TL - Ramp-up Rate		3°C/second max			
Deflesse	Temperature (T∟) (Liquidus)	217°C	Ramp-down		
Reflow Time (min to max) (ts)		60 – 150 seconds			
Peak Temperature (TP)		260°C	Preňeat		
Time within 5°C of actual peak Temperature (tp)		~10 seconds	25°C		
Ramp-down Rate		6°C/second max	t 25°C to Peak Time (t)		
Time 25°C to peak Temperature (TP)		8 minutes Max.			
Do not exceed		260°C			



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