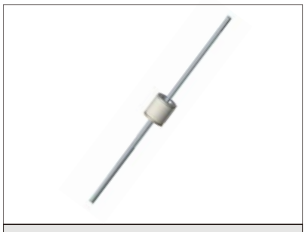
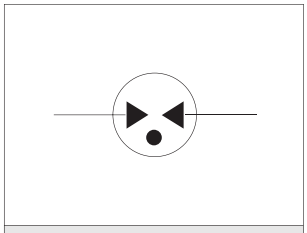
DESCRIPTION

The SG2R05B090 GDT offer high surge ratings. Special design features provide high levels of protection against fast rising transients in the 100V/us to 1KV/us range usually caused by lightning disturbances. 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. For AC Power Cross of long duration, over current protection is recommended.



ϕ5.5x6.0mm



GRAPHICAL SYMBOL

FEATURES

> RoHs compliant and lead-free.
> High insulation resistance.
> Max Surge current capacity 5000A 8/20 us.
> Low capacitance.
> Size ϕ5.5x6.0mm.

APPLICATIONS

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

PART NUMBER CODE

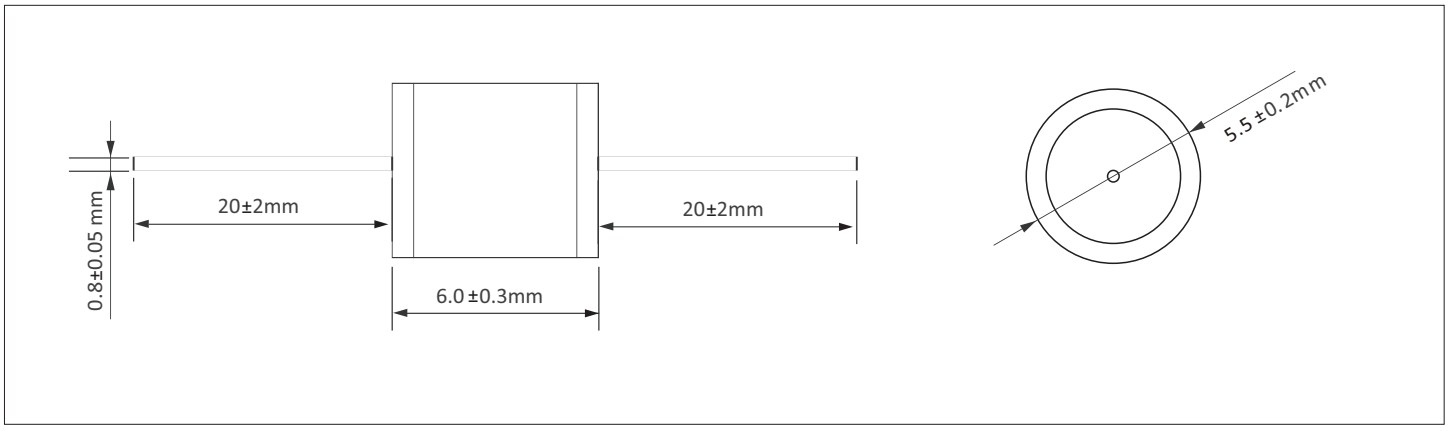
S G 2R05 B 090

- 090 — DC Breakdown Voltage: 090=90V
- B — Polar: B=Bidirectional, U=Unidirectional
- 2R05 — Product Size: 2R05=ϕ5.5x6.0mm
- G — Product Line: G=Gas Discharge Tube
- S — Semiware Brand

ELECTRICAL CHARACTERISTIC

Part Number	DC Breakdown Voltage	Tolerance of Vs	Impulse Spark-over Voltage	Impulse Discharge Current	Insulation Resistance		C@1MHZ Max.
	100V/s		1KV/us Max.	8/20us Min.	Min.	DC	
SG2R05B090	90V	±20%	900V	5000A	1Gohm	50V	1.5pF

PRODUCT DIMENSIONS



ENVIRONMENTAL RELIABILITY CHARACTERISTICS

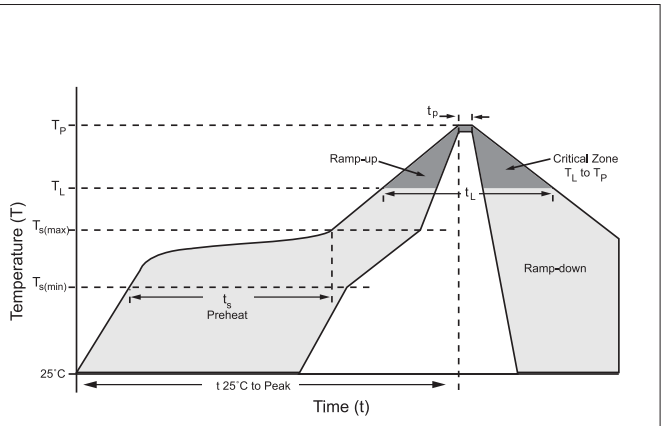
Testing Items	Technical Standards
High Temperature Storage Test	Temperature:85°C; Time: 2H
Low Temperature Storage Test	Temperature:-40°C; Time: 2H
Vibration	Frequency:10-500Hz;Amplitude:0.15mm;Time:45min
Resistance of Soldering Heat	Temperature:260°C ;Time of dip soldering:10s,1time

SOLDERABILITY TEST

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

REFLOW PROFILE

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



ORDERING INFORMATION

Part Number	SIZE(mm)	QTY/Reel	Reel Size
SG2R05B090	ϕ5.5x6.0	1000PCS	13"

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