

FEATURES

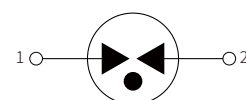
- | Size Design $\Phi 24 \times 6.0\text{mm}$
- | Extremely fast response time
- | Stable performance over life
- | High insulation resistance



$\Phi 24 \times 6.0\text{mm}$

APPLICATION INFORMATION

- | AC-POWER Line devices & Class I and Class II



Schematic Symbol

AGENCY APPROVALS

Icon	Solderability
RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003
	Mean lead free

PRODUCT CHARACTERISTICS

Lead Material	Body Material	Terminal Finish
Copper or Fe-Ni alloy	Ceramics	100% Matte-Tin Plated

ELECTRICAL PARAMETER

Parameter	Symbol	Limit	Unit
DC Blocking Voltage	100V/s	480-720	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 1500	V
	At 1kV/μs	Typical values of distribution ≤ 1450	V
Class I ²⁾ Nominal discharge current 8/20us	I _n	50	KA
Class I ²⁾ Impulse discharge current 10/350us	I _{max}	20	KA
Class I ²⁾ Max.continuous operating voltage at 50/60 Hz	I _{imp}	255	Vrms
Class I ²⁾ Follow on current at 50/60Hz	I _f	100	Arms
Class II ²⁾ Nominal discharge current 8/20us		100	KA
Class II ²⁾ Maximum discharge current 8/20us		50	KA
Class II ²⁾ Max.continuous operating voltage at 50/60 Hz		255	Vrms
Class II ²⁾ Follow on current at 50/60Hz		100	Arms
Operating and Storage Temperature		-40~+90	°C
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V	≤ 8	pF

1) 1) At delivery AQL 0.65 level II, DIN ISO2859

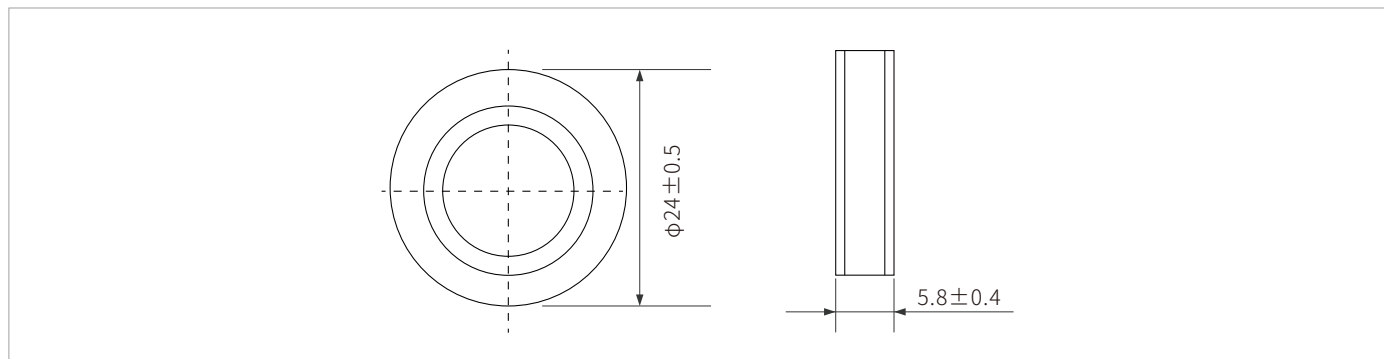
2) DC spark-over voltage 450V~1000V, Impulse spark-over voltage ≤ 1500V after load

3) Tests according to ITU-T Rec. K. 12 and IEC61643-311

ENVIRONMENTAL RELIABILITY CHARACTERISTICS

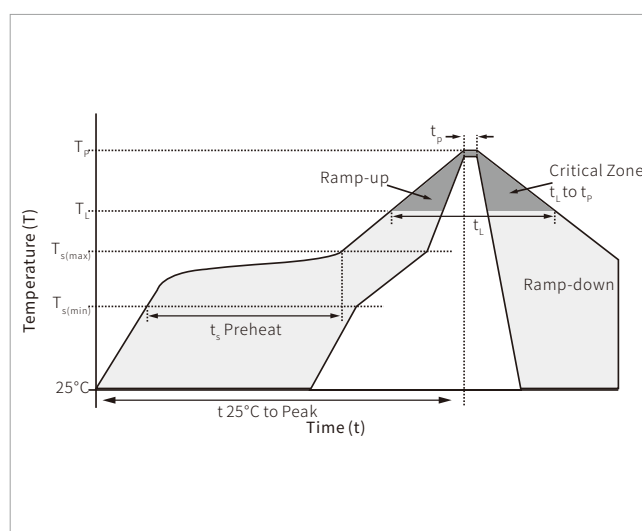
Testing items	Technical standards
High Temperature Storage Test	Temperature: 125°C ; Time:2H
Low Temperature Storage Test	Temperature: -40°C ; Time:2H
Vibration	Frequency: 10-500Hz ; Amplitude:0.15mm ; Time:45min
Resistance of soldering heat	Temperature: 260±5°C; Time of dip soldering:10s,1time

PRODUCT DIMENSIONS



SOLDERING PARAMETERS

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Max ($T_{s(min)}$)	150°C
	Temperature Max ($T_{s(max)}$)	200°C
	Time (min to max) (t_s)	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) (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260°C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 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	Marking	Qty/pcs
			Inner Box
SG2R24B600	Φ24*6.0mm	 SG600 24	20

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By QR Code

Website



Wechat

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