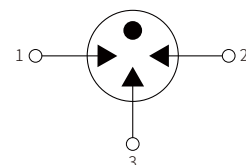


FEATURES

- | Size Design 3.5*3.5*6.8mm
- | High Current Handling Capability 6,000A @ 8/20 μ s
- | Low Capacitance and Insertion Loss
- | Quick Response and Long Service Life
- | Moisture sensitivity level: Level 1
- | High Reliability and Automobile Grade(AEC-Q200)



3.5*3.5*6.8mm



Schematic Symbol

APPLICATION INFORMATION

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

AGENCY APPROVALS

Icon	Solderability
RoHS	Compliance with 2011/65/EU
HF	Compliance with IEC61249-2-21:2003
Pb	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	Rating	Unit
DC Blocking Voltage 1)	100V/s	72-108	V
Impulse Spark-over Voltage	At 1kV/ μ s	for 99 % of measured values ≤ 650	V
	At 1kV/ μ s	Typical values of distribution ≤ 600	V
Impulse Discharge Current 2)	8/20 μ s	6	KA
Insulation Resistance	DC=100V	≥ 1	G Ω
Capacitance at 1MHz	V _{DC} =0.5V	≤ 1	pF
Operating and Storage Temperature		-40~90	°C

1) In ionized mode

2) Total Currents through center electrode, half value through each Tip electrode

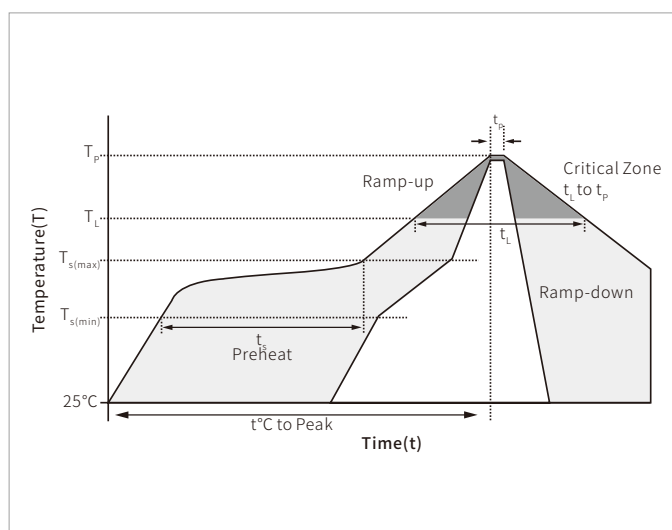
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

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

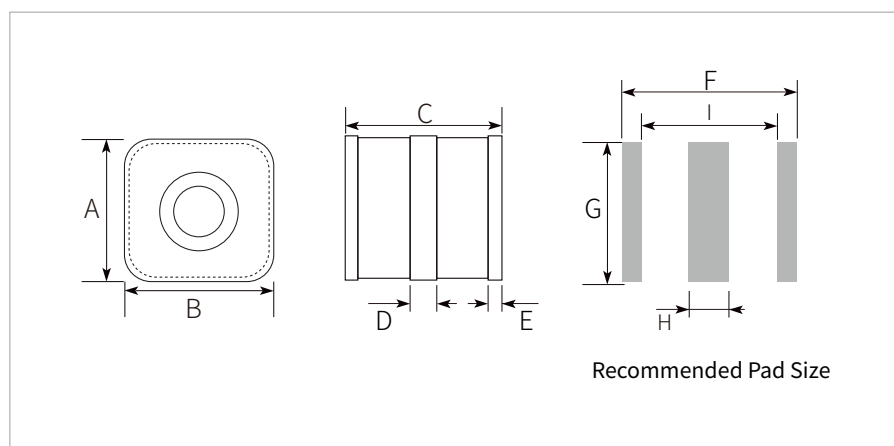
NOTE: Up-screen program can be specified by customer' s request via contacting Semiware service

REFLOW PROFILE

Reflow Condition		Lead-free assembly
Pre Heat	Temperature Min	150°C
	Temperature Max	200°C
	Time(min to max)	60~180 secs
Average ramp up rate (Liquidus)Temp (T_L) to peak $T_s(max)$ to T_L - Ramp-up Rate		3°C/second max
Reflow	Temperature (T_L) (Liquidus)	217°C
	Time(min to max)(t_s)	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

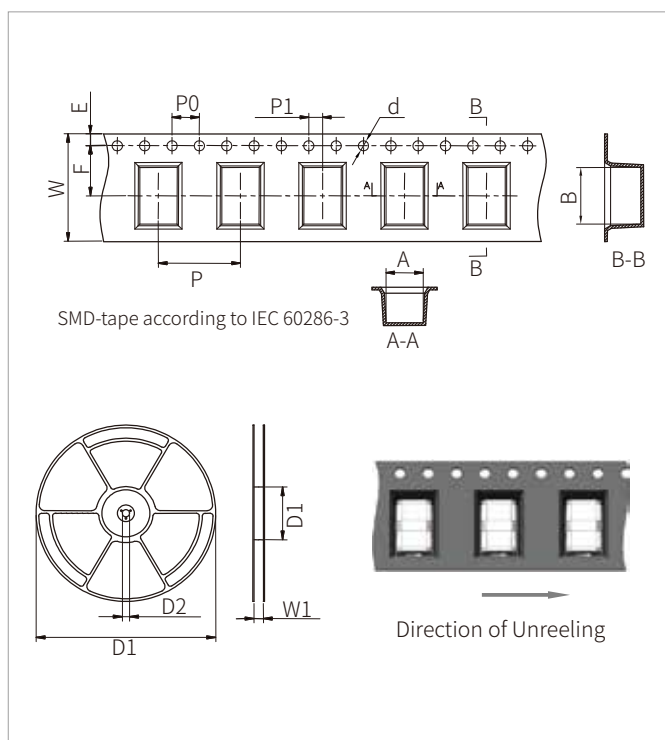


PRODUCT DIMENSIONS



Ref.	Outline Dimensions
	Millimeters
A	3.5±0.2
B	3.5±0.2
C	6.8±0.2
D	1.2±0.1
E	0.4±0.1
F	Max.8.1
G	Max.2.5
H	Max.1.8
I	Min.6.2

TAPE AND REEL SPECIFICATION



Ref.	Dimensions	
	Millimeters	Inches
A	3.9 ± 0.2	0.154 ± 0.008
B	7.0 ± 0.2	0.276 ± 0.008
d	$\Phi 1.5 \pm 0.1$	$\Phi 0.059 \pm 0.004$
E	1.75 ± 0.1	0.069 ± 0.004
F	7.5 ± 0.1	0.295 ± 0.002
P	8.0 ± 0.1	0.315 ± 0.004
P0	4.0 ± 0.1	0.157 ± 0.004
P1	2.0 ± 0.1	0.079 ± 0.004
W	16.0 ± 0.3	0.63 ± 0.012
D	$\Phi 330.0$	$\Phi 13.0$
D1	$\Phi 50 \text{Min}$	$\Phi 1.97 \text{Min}$
D2	$\Phi 13 \pm 0.15$	$\Phi 0.512 \pm 0.006$
W1	20.8 ± 2.0	0.819 ± 0.079

ORDERING INFORMATION

Part Number	Size	QTY/Reel	Reel Size
TPSG3D03B090	3.5*3.5*6.8mm	2500PCS	13"

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By QR Code

Website



Wechat

To find your local partner within Semiware' s global website: www.semiware.com

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