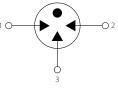


FEATURES

Surface Mounting Design 5.0*5.0*7.5mm

- High Current Handling Capability 10,000A @ 8/20 µs
- Low Capacitance and Insertion Loss
- Quick Response and Long Service Life
- Moisture sensitivity level: Level 1

5.0*5.0*7.5mm



Schematic Symbol

APPLICATION INFORMATION

Communication equipment.

- Repeaters,Modems
- Telephone Interface,Line cards.

Data communication equipment.

AGENCY APPROVALS

lcon	Solderability			
RoHS	Compliance with 2011/65/EU			
HF	Compliance with IEC61249-2-21:2003			
P Ø	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 1)	100V/s	63-117	V
Impulse Spark-over Voltage	At 1kV/µs	for 99 % of measured values ≤ 900	
	At 1kV/µs	Typical values of distribution ≤850	V
Impulse Discharge Current 2)	8/20µs	10,000	A
Insulation Resistance	DC=50V	≥ 1	GΩ
Capacitance at 1MHz	V _{DC} =0.5V	≤ 1.5	pF
Operating And Storage Temperature		-40-125	°C

1) In ionized mode

2) Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21

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±5°C; Time of dip soldering: 10s, 1time	

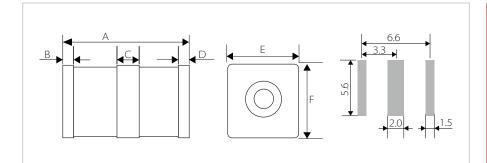
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service



REFLOW PROFILE

Reflow Condition		Lead-free assembly
	Temperature Min	150°C
Pre Heat	Temperature Max	200°C
Time(min to max)		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		
Reflow Temperature (T _L) (Liquidus) Time(min to max)(t _s)		217°C
		60 – 150 seconds
Peak Temperature (T _p)		260 °C
Time within 5°C of actual peak Temperature (tp)		10-30 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 AND RECOMMENDED SOLDERING PAD

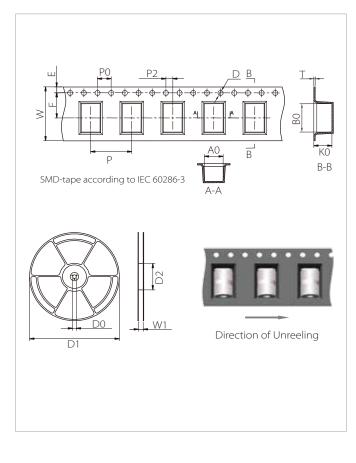


Ref.	Outline Dimensions
	Millimeters
A	7.5±0.3
В	0.5±0.2
С	1.6±0.2
D	0.5±0.2
E	5.0±0.2
F	5.0±0.2





TAPE AND REEL SPECIFICATION



Ref.	Dimensions		
Rei.	Millimeters	Inches	
W	16±0.3	0.630±0.012	
AO	5.4±0.1	0.213±0.004	
BO	8.4±0.1	0.331±0.004	
KO	5.3±0.1	0.209±0.004	
Р	12±0.1	0.472±0.004	
F	7.5±0.1	0.295±0.004	
E	1.75±0.1	0.069±0.004	
D	1.5+0.1/-0.0	0.059+0.004/-0.0	
PO	4±0.1	0.157±0.004	
P2	2±0.1	0.079±0.004	
Т	0.4±0.1	0.016±0.004	
D0	13.3±0.15	0.524±0.006	
D1	330±2	12.992±0.079	
D2	100+1/-2	3.937+0.039/-0.079	
W1	16.5±0.4	0.65±0.016	

ORDERING INFORMATION

Part Number	Size	Marking	QTY/Reel	Reel Size
SG3D05B090H	5.0*5.0*7.5mm	SG3D05B090	1000PCS	13″



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By QR Code





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