

## **FEATURES**

1	Surface	Mounting	Design	5 0*5	0*7 5mm	
	Junace	Mounting	Design	5.0 5.	.0 1.311111	

- High Current Handling Capability 5,000A @ 8/20  $\mu s$
- Low Capacitance and Insertion Loss
- Quick Response and Long Service Life
- Moisture sensitivity level:Level 1

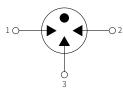
5.0\*5.0\*7.5mm



Communication equipment.

- Repeaters, Modems
- | Telephone Interface, Line cards.

Data communication equipment.



Schematic Symbol

### **AGENCY APPROVALS**

lcon	Solderability			
RoHS	Compliance with 2011/65/EU			
HF	Compliance with IEC61249-2-21:2003			
Mean lead free				
IR.	UL Certificated E505857			

# **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	120-180	V
Impulse Spark-over Voltage	At 1kV/µs	for 99 % of measured values $\leq$ 900	V
impuise spark-over voltage	At 1kV/µs	Typical values of distribution ≤850	V
Impulse Discharge Current 2)	8/20µs	5,000	А
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V <sub>DC</sub> =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 $\pm$ 5°C; Time of dip soldering:10s, 1time		

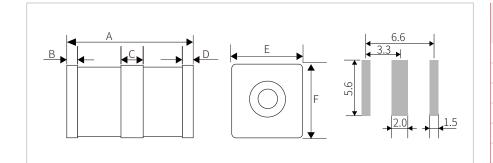
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service



# **REFLOW PROFILE**

		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 T <sub>s</sub> (max)to T <sub>L</sub> - Ramp-up Rate		3°C/second max
Deflaur	Temperature (T <sub>L</sub> ) (Liquidus)	217°C
Reflow	Time(min to max)(t <sub>s</sub> )	60 – 150 seconds
Peak Temperature (T <sub>P</sub> )		260 °C
Time with	in 5°C of actual peak Temperature (tp)	10-30 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T <sub>P</sub> )		8 minutes max.
Do not exceed		260°C

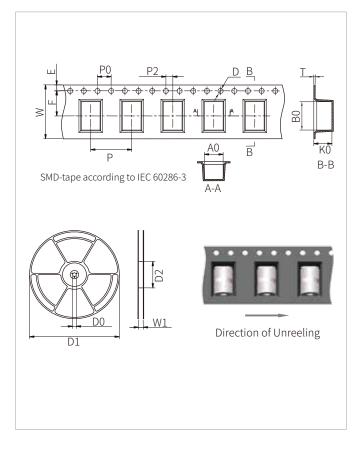
### DIMENSIONS AND RECOMMENDED SOLDERING PAD



Ref.	Outline Dimensions	
Kei.	Millimeters	
А	7.5±0.3	
В	0.5±0.2	
С	1.6±0.2	
D	0.5±0.2	
Е	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		
В0	8.4±0.1	0.331±0.004		
K0	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		
P0	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
SG3D05B150	5.0*5.0*7.5mm	SG3D05B150	1000PCS	13"



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### By QR Code





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