

#### **FEATURES**

| Size Design 5.0\*5.0\*7.5mm

High Current Handling Capability 10000A @ 8/20 μs

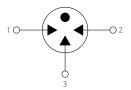
Low Capacitance and Insertion Loss

| 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	
<b>P</b> 6	Mean lead free	
R	UL Certificated E505857	

### **PRODUCT CHARACTERISTICS**

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



## **ELECTRICAL PARAMETER**

Parameter	Symbol	Rating	Unit
DC Blocking Voltage 1)	100V/s	184-276	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤700	V
impuise spark-over voitage	At 1kV/μs	Typical values of distribution ≤600	V
Impulse Discharge Current 2)	8/20µs	10	KA
Insulation Resistance	DC=100V	≥ 1	GΩ
Capacitance at 1MHz	V <sub>DC</sub> =0.5V	≤ 1	рF
Operating and Storage Temperature		-40~90	°C

<sup>1)</sup> In ionized mode

## **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		

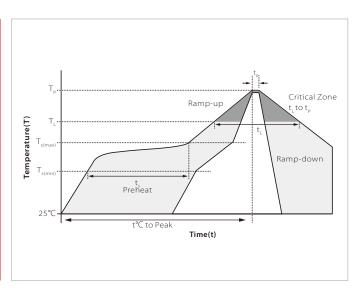
**NOTE:** Up-screen program can be specified by customer's request via contacting Semiware service

<sup>2)</sup> Terms and waveforms in accordance with ITU-T Rec. K. 12; IIEC 61643-311

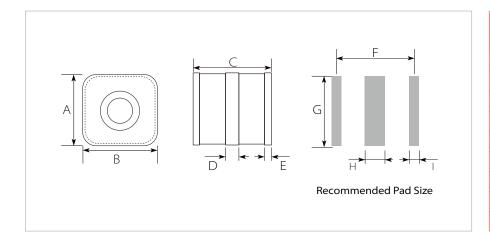


### **REFLOW PROFILE**

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	
Ts(max)to Tl - Ramp-up Rate			
Reflow	Temperature (T <sub>L</sub> ) (Liquidus)	217℃	
Reflow	Time(min to max)( $t_s$ )	60~150 seconds	
Peak Temperature (T <sub>p</sub> )		260°C	
Time within 5°C of actual peak Temperature (tp)		20~40 seconds	
Ramp-down Rate		6°C/second max	
Time 25°C to peak Temperature (Tp)		8 minutes max.	
Do not exceed		260°C	



# **PRODUCT DIMENSIONS**

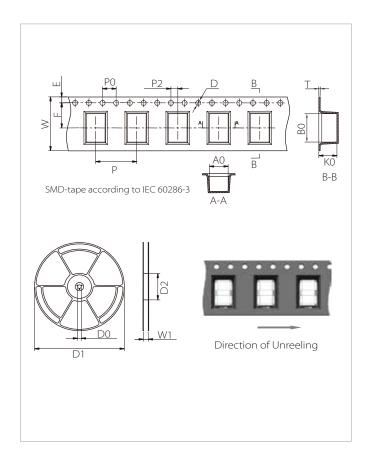


Ref.		
Kei.	Millimeters	
А	5.0±0.2	
В	5.0±0.2	
С	7.5±0.3	
D	1.5±0.3	
E	0.5±0.2	
F	6.4	
G	5.5	
Н	2.8	
I	1.6	

**Outline Dimensions** 



### **TAPE AND REEL SPECIFICATION**



Ref.	Dimensions		
Ker.	Millimeters	Inches	
W	16±0.3	0.630±0.012	
A0	5.4±0.1	0.213±0.004	
BO	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	
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	QTY/Reel	Reel Size
SG3D05B230B	5.0*5.0*7.5mm	1000PCS	13"



#### Headquarters

No.3387 Shendu Road Pujiang I&E Park Minhang Shanghai China 201000

#### Hotline

400-021-5756

#### Web

Https://www.semiware.com

#### **Sales Center**

Tel: 86-21-3463-7458 Email: sales18@semiware.com

#### **Customer Service**

Tel: 86-21-5484-1001 Email: sales17@semiware.com

#### **Technical Support**

Tel: 86-21-3463-7654 Email: fae01@semiware.com

#### **Complaint & Suggestions**

Tel: 86-21-3463-7172 Ext: 8868 Email: cs03@semiware.com

#### By QR Code





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