

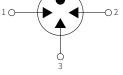
## **FEATURES**

Surface Mounting Design 5.0*5.0*7.5mm	
---------------------------------------	--

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

# FEI

5.0\*5.0\*7.5mm



<sup>3</sup> 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			
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	53-97	V
Impulse Spark-over Voltage	At 1kV/µs	for 99 % of measured values $\leq$ 600	V
	At 1kV/µs	Typical values of distribution ≤500	V
Impulse Discharge Current 2)	8/20µs	10,000	А
Insulation Resistance	DC=50V	≥ 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

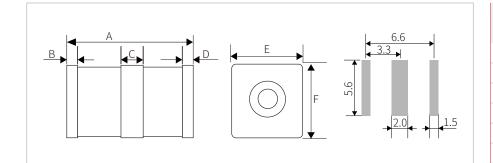
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service



# **REFLOW PROFILE**

	<b>Reflow Condition</b>	Lead-free assembly
	Temperature Min	150°C
Pre Heat	Temperature Max	200°C
	Time(min to max)	60 – 180 secs
Average rar	mp up rate (Liquidus)Temp ( $T_L$ ) to peak $T_s$ (max)to $T_L$ - 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 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 <sub>P</sub> )		8 minutes max.
Do not exceed		260°C

## DIMENSIONS AND RECOMMENDED SOLDERING PAD

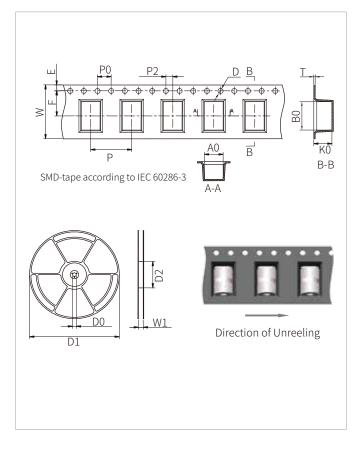


Ref.	Outline Dimensions
	Millimeters
А	7.5±0.3
В	0.5±0.2
С	1.6±0.2
D	0.5±0.2
E	5.0±0.2
F	5.0±0.2



# TAPE AND REEL SPECIFICATION

SEMIWARE®



Ref.	Dimensions		
Rei.	Millimeters	Inches	
W	16±0.3	0.630±0.012	
A0	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
SG3D05B075H	5.0*5.0*7.5mm	SG3D05B075	1000PCS	13"



#### Headquarters

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

Hotline 400-021-5756

400-021-3730

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





Website

Wechat

To find your local partner within Semiware's global website: www.semiware.com © 2022 Semiware Semiconductor Inc.

The content of this document has been carefully checked and understood. However, neither Semiware nor its subsidiaries assume any liability whatsoever for any errors or inaccuracies of this document and the consequences thereof. Published specifications are subject to change without notice. Product suitability for any area of application must ultimately be determined by the customer. In all cases, products must never be operated outside their published specifications. Semiware does not guarantee the availability of all published products. This disclaimer shall be governed by substantive Chinese law and resulting disputes shall be settled by the courts at the place of business of Semiware. Latest publications and a complete disclaimer can be downloaded from the Semiware website. All trademarks recognized.