

### **FEATURES**

Surface Mounting Design 3.2\*1.6\*1.6mm

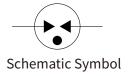
High Current Handling Capability 500A @ 8/20 μs

Low Capacitance and Insertion Loss

Quick Response and Long Service Life

Moisture sensitivity level: Level 1





## **APPLICATION INFORMATION**

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

## **AGENCY APPROVALS**

Icon	IconSolderabilityRoHSCompliance with 2011/65/EU	
RoHS		
HF	Compliance with IEC61249-2-21:2003	
P	Mean lead free	
<b>IR</b> .	UL Certificated E505857	

# **PRODUCT CHARACTERISTICS**

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



### **ELECTRICAL PARAMETER**

Parameter	Condition	Rating	Unit
DC Blocking Voltage 1)	100V/s	280-520	V
Impulse Spark-over Voltage	At 1kV/μs	for 99 % of measured values ≤ 1050	V
impuise Spark-over voltage	At 1kV/μs	Typical values of distribution ≤ 1000	V
Impulse Discharge Current 2)	e Discharge Current 2) 8/20μs 500		А
Insulation Resistance	DC=100V	≥1	GΩ
Capacitance at 1MHz	t 1MHz $V_{DC}$ =0.5V $\leq$ 0.6		pF
Operating And Storage Temperature		-40-125	°C

## **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

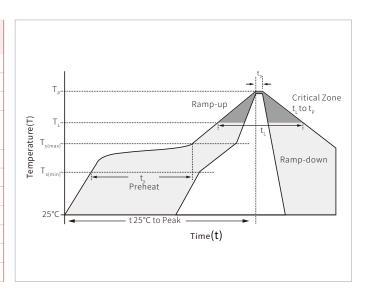
NOTE:Up-screen program can be specified by customer's request via contacting Semiware service

<sup>1)</sup> In ionized mode 2) Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-21  $\,$ 

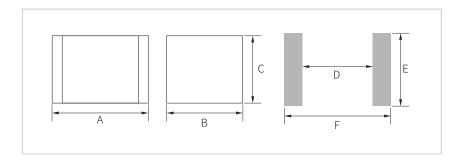


# **REFLOW PROFILE**

	Reflow Condition	Lead-free assembly
	Temperature Min	150°C
Pre Heat	Temperature Max	200°C
	Time(min to max)	60 – 180 secs
Average ra	mp up rate (Liquidus) Temp ( $T_L$ ) to peak $T_s$ (max) to $T_L$ - Ramp-up Rate	3°C/second max
D-fl	Temperature (T <sub>L</sub> ) (Liquidus)	217°C
Reflow	Time (min to max) $(t_L)$	60 – 150 seconds
Peak Tem	nperature (T¸)	260°C
Time with	nin 5°C of actual peak Temperature (tp)	10 – 30 seconds
Ramp-do	own Rate	6°C/second max
Time 25°	C to peak Temperature (T₅)	8 minutes max.
Do not exceed		260°C



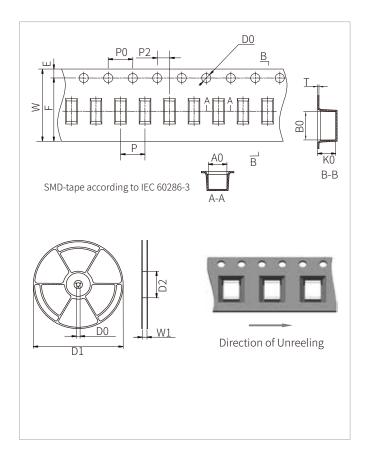
# **DIMENSIONS AND RECOMMENDED SOLDERING PAD**



Ref.	mm	
А	3.2±0.3mm	
В	1.6±0.3mm	
C 1.6±0.3mr		
D	2.0mm	
E 1.8mm		
F	4.0mm	



## TAPE AND REEL SPECIFICATION



Ref.	Dimensions			
Kei.	Millimeters	Inches		
W	12±0.3	0.472±0.012		
A0	1.8±0.1	0.071±0.004		
В0	3.4±0.1	0.134±0.004		
K0	1.8±0.1	0.071±0.004		
Р	4.0±0.1	0.157±0.004		
F	5.5±0.1	0.217±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	0.35±0.05	0.014±0.002		
D0	13.3±0.15	0.524±0.006		
D1	178±2	7.007±0.079		
D2	60+1/-2	2.362+0.039/-0.079		
W1	12.5±0.4	0.492±0.016		

# **ORDERING INFORMATION**

Part Number	Size	QTY/Reel	Reel Size
SG3216B400	3.2*1.6*1.6mm	2000PCS	7"



#### 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





Website

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