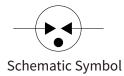


## **FEATURES**

| Surface Mounting Design 4.5*3.2*2.7mm |  |
|---------------------------------------|--|
|---------------------------------------|--|

- High Current Handling Capability 2000A @ 8/20  $\mu s$
- 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**

| lcon | Solderability                      |  |
|------|------------------------------------|--|
| RoHS | Compliance with 2011/65/EU         |  |
| HF   | Compliance with IEC61249-2-21:2003 |  |
| P    | 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                         | Condition             | Rating                                    | Unit |
|-----------------------------------|-----------------------|-------------------------------------------|------|
| DC Blocking Voltage 1)            | 100V/s                | 320-480                                   | V    |
| Impulse Spark-over Voltage        | At 1kV/µs             | for 99 % of measured values $\leq$ 1000   | V    |
| impulse spark-over voltage        | At 1kV/μs             | Typical values of distribution $\leq$ 950 | V    |
| Impulse Discharge Current 2)      | 8/20µs                | 2000                                      | А    |
| Insulation Resistance             | DC=100V               | ≥1                                        | GΩ   |
| Capacitance at 1MHz               | V <sub>DC</sub> =0.5V | ≤ 1.0                                     | pF   |
| Operating And Storage Temperature |                       | -40-125                                   | °C   |

1) In ionized mode

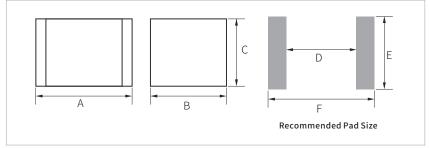
2) Terms and waveforms in accordance with ITU-T Rec. K. 12; IEC 61643-311

### **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

### DIMENSIONS AND RECOMMENDED SOLDERING PAD



| Ref.        | mm        |  |
|-------------|-----------|--|
| А           | 4.5±0.3mm |  |
| B 3.2±0.3mm |           |  |
| С           | 2.7±0.3mm |  |
| D           | 2.8mm     |  |
| E           | 4.0mm     |  |
| F           | 5.2mm     |  |



# **SOLDERABILITY TEST**

| Solderability          |                   |  |
|------------------------|-------------------|--|
| Solder Pot Temperature | Solder Dwell Time |  |
| 245°C ± 5°C            | 4-6 seconds       |  |

### **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 ra | mp up rate (Liquidus)Temp (T <sub>L</sub> ) to peak | 3°C/second max     |
|            | $T_{s(max)}$ to $T_{L}$ - Ramp-up Rate              | 5 C/Second max     |
|            | Temperature (T <sub>L</sub> ) (Liquidus)            | 217°C              |
| Reflow     | Time(min to max)(t <sub>s</sub> )                   | 60 – 150 seconds   |
| Peak Tem   | nperature (T <sub>P</sub> )                         | 260 °C             |
| Time with  | nin 5°C of actual peak Temperature (tp)             | 20-40 seconds      |
| Ramp-do    | own Rate                                            | 6°C/second max     |
| Time 25°   | C to peak Temperature (T <sub>P</sub> )             | 8 minutes max.     |
| Do not ex  | ceed                                                | 260°C              |

## **ORDERING INFORMATION**

| Part Number | Size          | QTY/Reel | Reel Size |
|-------------|---------------|----------|-----------|
| SG4532B400  | 4.5*3.2*2.7mm | 2500PCS  | 13"       |



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#### By QR Code





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