

FEATURES

| ı | Size D | esign : | 5.0^5.0 | J^/.5n | nm | |
|---|--------|---------|---------|--------|----|--|
| ī | | _ | | 111- | _ | |

High Current Handling Capability 10000A @ 8/20 μs

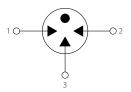
Low Capacitance and Insertion Loss

| 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 | |
| ® | Mean lead free | |
| <i>IR</i> 。 | 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 | Rating | Unit |
|-----------------------------------|---------------------------------------|-------------------------------------|------|
| DC Blocking Voltage 1) | 100V/s | 72-108 | |
| Impulse Spark aver Voltage | At 1kV/μs | for 99 % of measured values ≤600 | V |
| Impulse Spark-over Voltage | At 1kV/μs | Typical values of distribution ≤500 | V |
| Impulse Discharge Current 2) | mpulse Discharge Current 2) 8/20µs 10 | | KA |
| Insulation Resistance | DC=50V | ≥ 1 | GΩ |
| Capacitance at 1MHz | V _{DC} =0.5V | ≤ 1 | рF |
| Operating and Storage Temperature | | -40~90 | °⊂ |

¹⁾ 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 |

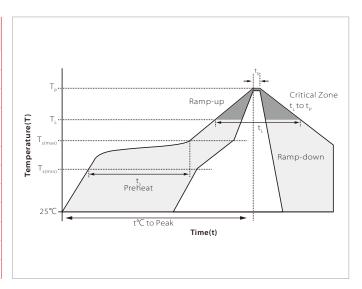
NOTE: Up-screen program can be specified by customer's request via contacting Semiware service

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

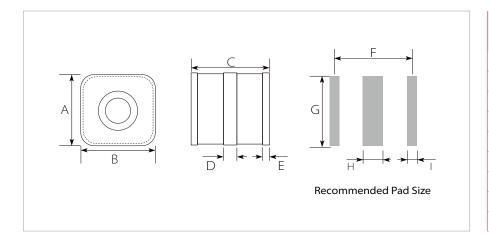


REFLOW PROFILE

| | Reflow Condition | Lead-free assembly | |
|---|--|--------------------|--|
| | Temperature Min | 150°C | |
| Pre Heat | Temperature Max | 200°C | |
| | Time(min to max) | 60~180 secs | |
| Average ra | amp up rate (Liquidus) $Temp(T_L)$ to peak | 3°C/second max | |
| | T_s (max)to T_L - Ramp-up Rate | 3 C/3eCondinax | |
| Reflow | Temperature (T _L) (Liquidus) | 217℃ | |
| Kellow | Time(min to max)(t_s) | 60~150 seconds | |
| PeakTem | perature (T,) | 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 (T,) | | 8 minutes max. | |
| Do not exceed | | 260°C | |



PRODUCT DIMENSIONS

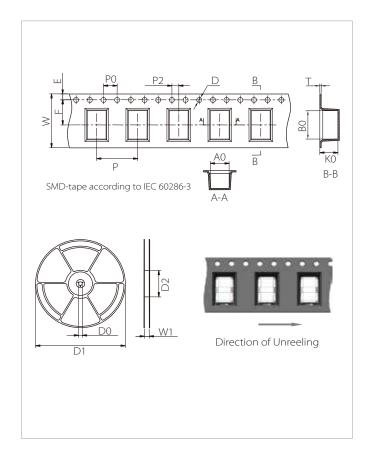


| Ref. | |
|------|-------------|
| nei. | Millimeters |
| А | 5.0±0.2 |
| В | 5.0±0.2 |
| С | 7.5±0.3 |
| D | 1.5±0.3 |
| E | 0.5±0.2 |
| F | 6.4 |
| G | 5.5 |
| Н | 2.8 |
| I | 1.6 |

Outline Dimensions



TAPE AND REEL SPECIFICATION



| Ref. | Dimensions | | |
|------|--------------|--------------------|--|
| кет. | 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 |
|-------------|---------------|----------|-----------|
| SG3D05B090B | 5.0*5.0*7.5mm | 1000PCS | 13" |



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