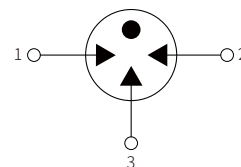


FEATURES

- | Size Design 5.0*5.0*7.5mm
- | High Current Handling Capability 10000A @ 8/20 μ s
- | Low Capacitance and Insertion Loss
- | Quick Response and Long Service Life
- | Moisture sensitivity level: Level 1
- | High Reliability and Automobile Grade(AEC-Q200)



5.0*5.0*7.5mm



Schematic Symbol

APPLICATION INFORMATION

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

AGENCY APPROVALS

| Icon | Solderability |
|---|------------------------------------|
| RoHS | Compliance with 2011/65/EU |
| HF | Compliance with IEC61249-2-21:2003 |
|  | Mean lead free |
|  | 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 | V |
| Impulse Spark-over Voltage | At 1kV/ μ s | for 99 % of measured values ≤ 600 | V |
| | At 1kV/ μ s | Typical values of distribution ≤ 500 | V |
| Impulse Discharge Current 2) | 8/20 μ s | 10 | KA |
| Insulation Resistance | DC=50V | ≥ 1 | G Ω |
| Capacitance at 1MHz | V _{DC} =0.5V | ≤ 1 | pF |
| Operating and Storage Temperature | | -40~90 | °C |

1) In ionized mode

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

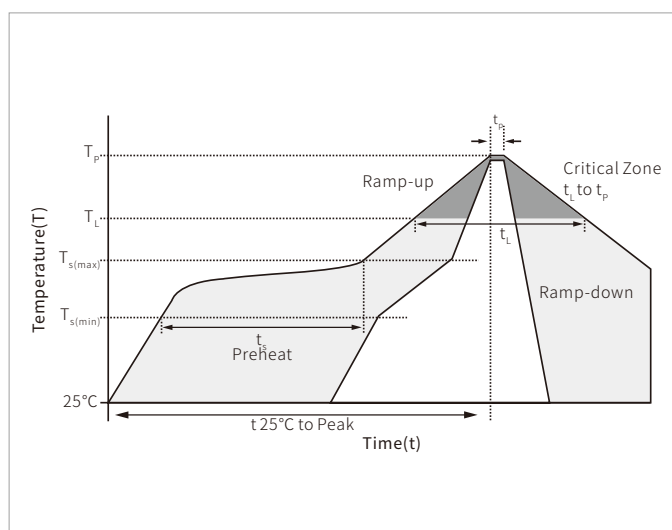
ENVIRONMENTAL RELIABILITY CHARACTERISTICS

| 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°C; Time of dip soldering:10s,1time |

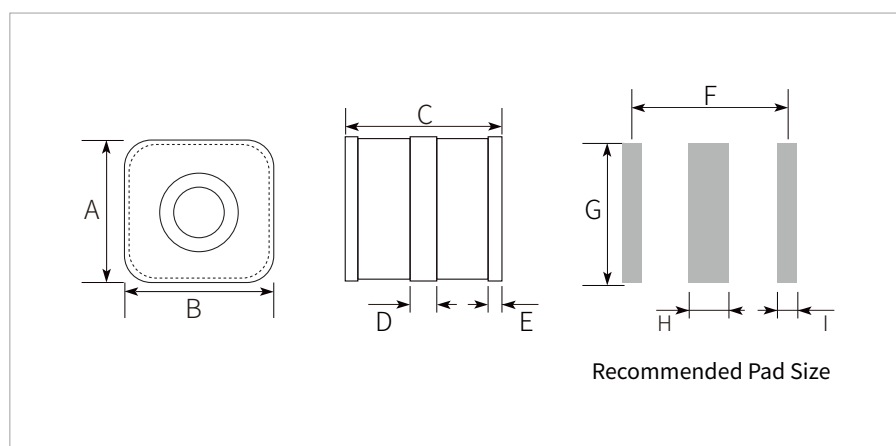
NOTE:Up-screen program can be specified by customer' s request via contacting Semiware service

REFLOW PROFILE

| Reflow Condition | | Lead-free assembly |
|--|----------------------------------|--------------------|
| Pre Heat | Temperature Min | 150°C |
| | Temperature Max | 200°C |
| | Time(min to max) | 60~180 secs |
| Average ramp up rate (Liquidus)Temp (T_L) to peak $T_s(max)$ to T_L - Ramp-up Rate | | 3°C/second max |
| Reflow | Temperature (T_L) (Liquidus) | 217°C |
| | Time(min to max)(t_s) | 60~150 seconds |
| Peak Temperature (T_p) | | 260 °C |
| Time within 5°C of actual peak Temperature (t_p) | | 20~40 seconds |
| Ramp-down Rate | | 6°C/second max |
| Time 25°C to peak Temperature (T_p) | | 8 minutes max. |
| Do not exceed | | 260°C |

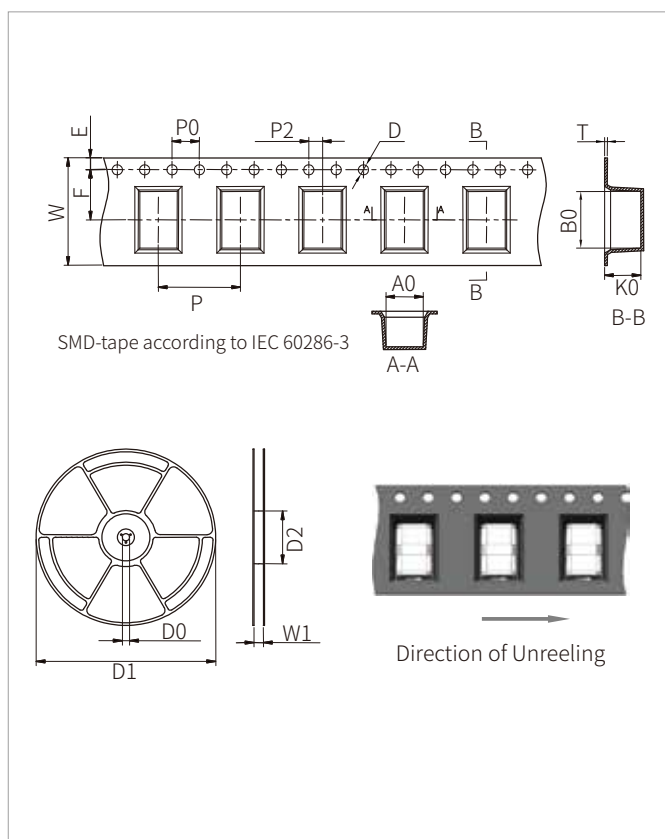


PRODUCT DIMENSIONS



| Ref. | Outline Dimensions |
|------|--------------------|
| | Millimeters |
| A | 5.0±0.2 |
| B | 5.0±0.2 |
| C | 7.5±0.3 |
| D | 1.5±0.3 |
| E | 0.5±0.2 |
| F | 6.4 |
| G | 5.5 |
| H | 2.8 |
| I | 1.6 |

TAPE AND REEL SPECIFICATION



| Ref. | Dimensions | |
|------|---------------------|---------------------------|
| | Millimeters | Inches |
| W | 16 ± 0.3 | 0.630 ± 0.012 |
| A0 | 5.4 ± 0.1 | 0.213 ± 0.004 |
| B0 | 8.4 ± 0.1 | 0.331 ± 0.004 |
| K0 | 5.3 ± 0.1 | 0.209 ± 0.004 |
| P | 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 |
| T | 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 |
|---------------|---------------|----------|-----------|
| TPSG3D05B090B | 5.0*5.0*7.5mm | 1000PCS | 13" |

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By QR Code

Website



Wechat

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