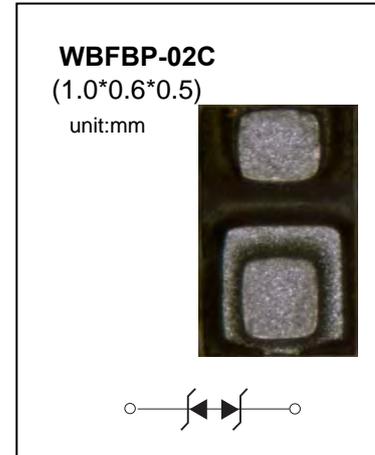


Transient Voltage Suppressors for ESD Protection

DESCRIPTION

The SESDLL5V0WB is designed to protect voltage sensitive components from ESD. Excellent clamping capability, low leakage, and fast response time provide best in class protection on designs that are exposed to ESD. Because of its small size, it is suited for use in cellular phones, MP3 players, digital cameras and many other portable applications where board space is at a premium.



FEATURES

- Reverse Working (Stand-Off) Voltage: 5.0 V
- Low Leakage
- Response Time is Typically < 1 ns
- ESD Rating of Class 3 (> 16 kV) Per Human Body Model
- IEC61000-4-2 Level 4 ESD Protection
- **Pb-Free package is available**
RoHS product for packing code suffix "G"
Halogen free product for packing code suffix "H"

Maximum Ratings @Ta=25°C

| Parameter | Symbol | Limit | Unit |
|--|---------------------------------------|------------|------|
| IEC61000-4-2(ESD) Air Contact | | ±25 ±25 | KV |
| ESD Voltage Per Human Body Model Per Machine Model | | 16 | KV |
| | | 400 | V |
| Total Power Dissipation on FR-5 Board (Note 1) | P_D | 100 | mW |
| Thermal Resistance Junction-to-Ambient | R _{θJA} | 1250 | °C/W |
| Lead Solder Temperature – Maximum (10 Second Duration) | T_L | 260 | °C |
| Junction and Storage Temperature Range | T_j, T_{stg} | -55 ~ +150 | °C |

Stresses exceeding maximum ratings may damage the device. Maximum ratings are stress ratings only.

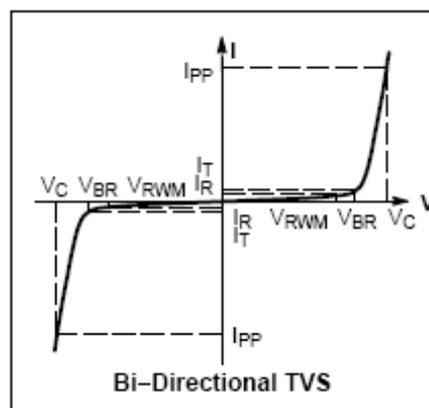
Functional operation above the recommended. Operating conditions is not implied. Extended exposure to stresses above the recommended operating conditions may affect device reliability.

1. FR-5 = 1.0 x 0.75 x 0.62 in.

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ELECTRICAL CHARACTERISTICS (Ta = 25°C unless otherwise noted)

| Symbol | Parameter |
|------------------|--|
| I _{PP} | Maximum Reverse Peak Pulse Current |
| V _C | Clamping Voltage @ I _{PP} |
| V _{RWM} | Working Peak Reverse Voltage |
| I _R | Maximum Reverse Leakage Current @ V _{RWM} |
| V _{BR} | Breakdown Voltage @ I _T |
| I _T | Test Current |



ELECTRICAL CHARACTERISTICS (Ta=25°C unless otherwise noted)

| Device* | Device Marking | V _{RWM} | I _R (μA) | V _{BR} (V)@I _T | | I _T | V _C | C(pF)@ | |
|-------------|----------------|------------------|---------------------|------------------------------------|-----|----------------|----------------------|---------------------------|-----|
| | | (V) | @V _{RWM} | (Note2) | | | @I _{PP} =5A | V _R =0V,f=1MHz | |
| | | Max | Max | Min | Max | mA | V | Typ | Max |
| SESDLL5V0WB | H | 5.0 | 0.1 | 5.8 | 8.0 | 1.0 | 12.5 | 12 | 15 |

*Other voltages available upon request.

2. V_{BR} is measured with a pulse test current I_T at an ambient temperature of 25°C.