

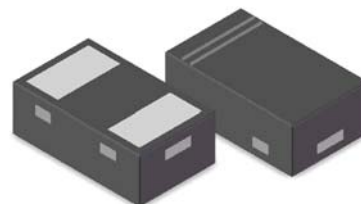
Features

- 174 Watts peak pulse power ($t_p = 8/20\mu s$)
- SOD-882 package
- Bidirectional configurations
- Protects one I/O port
- Low clamping voltage
- Low Leakage current
- ESD-immunity acc. IEC 61000-4-2 $\pm 30KV$ contact
 $\pm 30KV$ air
- IEC 61000-4-4 (EFT) 40A (5/50ns)

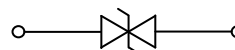
Applications

- Cell Phone
- PDA
- Notebook
- Digital Cameras
- Portable Instrumentation
- Audio and video equipment

SES5VD882SY-2B



SOD-882



Schematic Diagram

Absolute Maximum Ratings

($T_A=25^\circ C$, Unless otherwise specified.)

| Parameter | Symbol | Value | Unit |
|--|-----------|-------------|------------|
| Peak Pulse Power ($T_P=8/20\mu S$) | P_{PP} | 174 | W |
| Peak Pulse Current ($t_P = 8/20\mu S$) | I_{PP} | 9.4 | A |
| Junction Temperature | T_J | -55 to +125 | $^\circ C$ |
| Storage temperature | T_{STG} | -55 to +150 | $^\circ C$ |

Electrical Characteristics

($T_A=25^\circ C$, Unless otherwise specified.)

| Parameter | Symbol | Condition | Min | Typ | Max | Unit |
|---------------------------|-----------|------------------------------|-----|-----|------|---------|
| Reverse stand-off Voltage | V_{RWM} | | | | 5 | V |
| Reverse Breakdown Voltage | V_{BR} | $I_T=1mA$ | 5.6 | 6.8 | | V |
| Reverse Leakage Current | I_R | $V_R=5V$ | | | 1 | μA |
| Clamping Voltage | V_C | $I_{PP}=5A, T_P=8/20\mu S$ | | | 11.6 | V |
| | V_C | $I_{PP}=9.4A, T_P=8/20\mu S$ | | | 18.6 | V |
| Junction Capacitance | C_J | $V_R=0V, f=1MHz$ | | 15 | | pF |

Typical Characteristic Curves

Fig.1 Peak Pulse Power Rating Curve

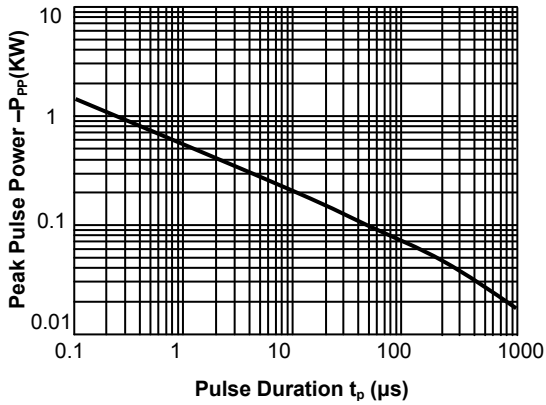


Fig.2 Pulse Derating Curve

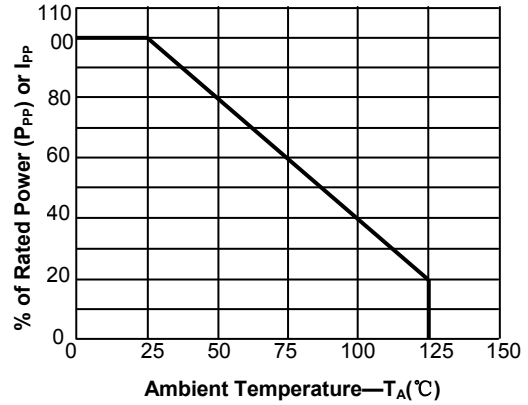


Fig.3 Pulse Waveform-8/20μs

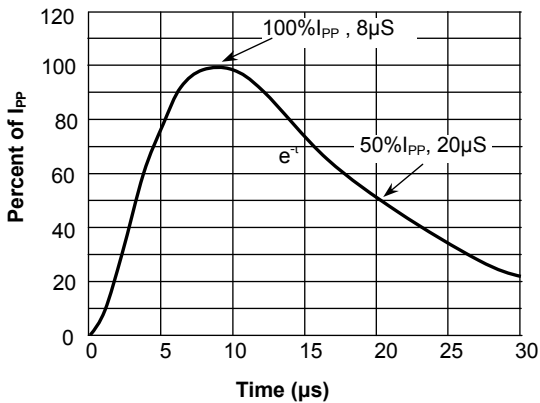
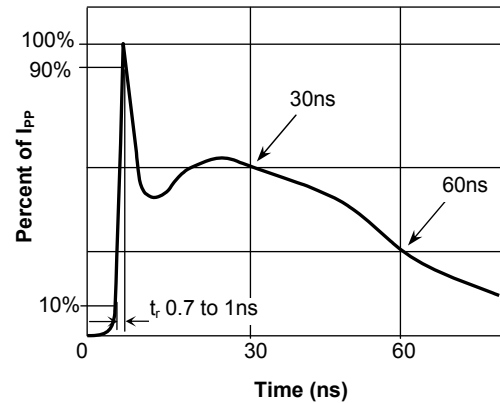
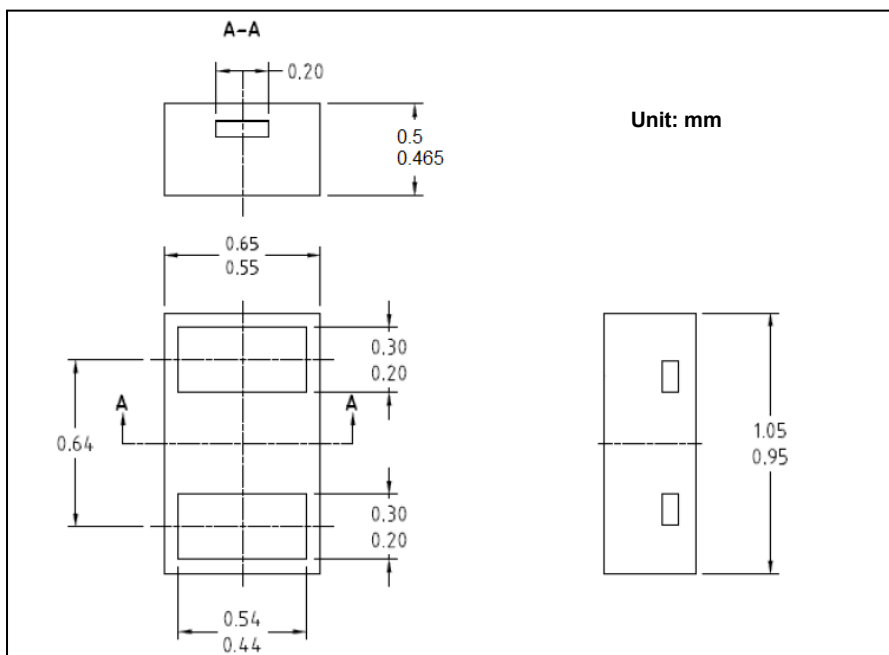


Fig.4 Pulse Waveform-ESD(IEC61000-4-2)



Product Dimensions



Order Information

| Device | Package | Marking | Carrier | Quantity | HSF Status |
|----------------|---------|---------|-------------|-----------------|----------------|
| SES5VD882SY-2B | SOD-882 | C | Tape & Reel | 10000pcs / Reel | RoHS compliant |

Revision history


| Date | Revision | Description of changes |
|---------------|----------|------------------------|
| 12-March-2013 | A0 | First issue |

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