

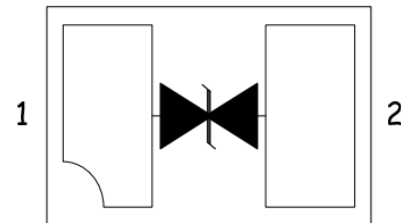
Features

- 30W (8/20 μ s) Peak Pulse Power
- Low Capacitance ESD Protection
- SOD-882 Package
- RoHS Compliant
- Matte Tin Lead finish (Pb-Free)
- Protect One High Speed Data Line
- Meet IEC61000-4-2 Level 4:
 - Contact Discharge > 8kV
 - Air Discharge > 15kV

Dimensions SOD882



Pin Configuration



Applications

- Communication System
- Portable Instrumentation
- Audio and Video Equipment
- Computers and Peripherals
- USB 1.1, USB 2.0 Ports

Mechanical Characteristics

- Package: SOD882
- Lead Finish: Lead Free
- UL Flammability Classification Rating 94V-0
- Quantity Per Reel: 10,000pcs
- Reel Size: 7 inch

Absolute Maximum Ratings (T_{amb}=25°C unless otherwise specified)

| Parameter | Symbol | Value | Unit |
|---------------------------------|------------------|-------------|------|
| Peak Pulse Power (8/20 μ s) | P _{pp} | 30 | W |
| ESD per IEC 61000-4-2 (Air) | V _{ESD} | ± 15 | Kv |
| ESD per IEC 61000-4-2 (Contact) | | ± 8 | |
| Operating Temperature Range | T _J | -55 to +150 | °C |
| Storage Temperature Range | T _{STJ} | -55 to +150 | °C |

Electrical Characteristics(TA=25°C unless otherwise specified)

| Part Number | Device Marking | V _{RWM} (V) | V _{BR} (V) | I _T (mA) | V _C @1A | V _C | | I _R μA (Max) | C (Pf) (Typ.) |
|-------------|----------------|----------------------|---------------------|---------------------|--------------------|----------------|------|-------------------------|---------------|
| | | | | | | (Max) | (@A) | | |
| ESDA05CPL | 88 | 5 | 5.5 | 1 | 12 | 15 | 2 | 0.5 | 3 |

Typical Performance Curves

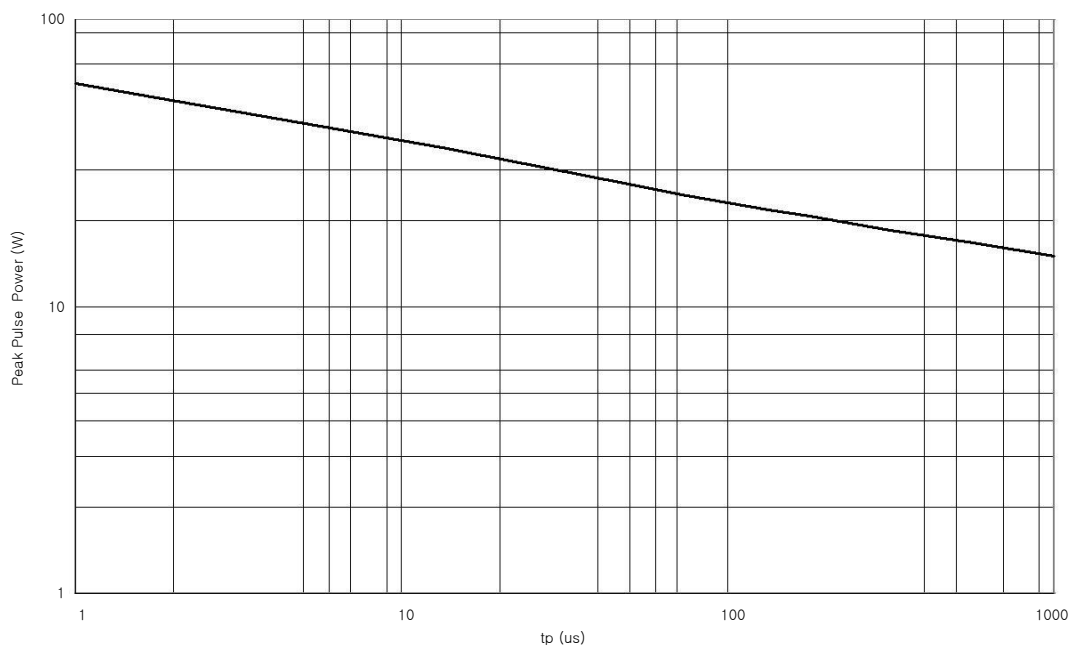


Figure 1. Peak Pulse Power Derating

Typical Performance Curves

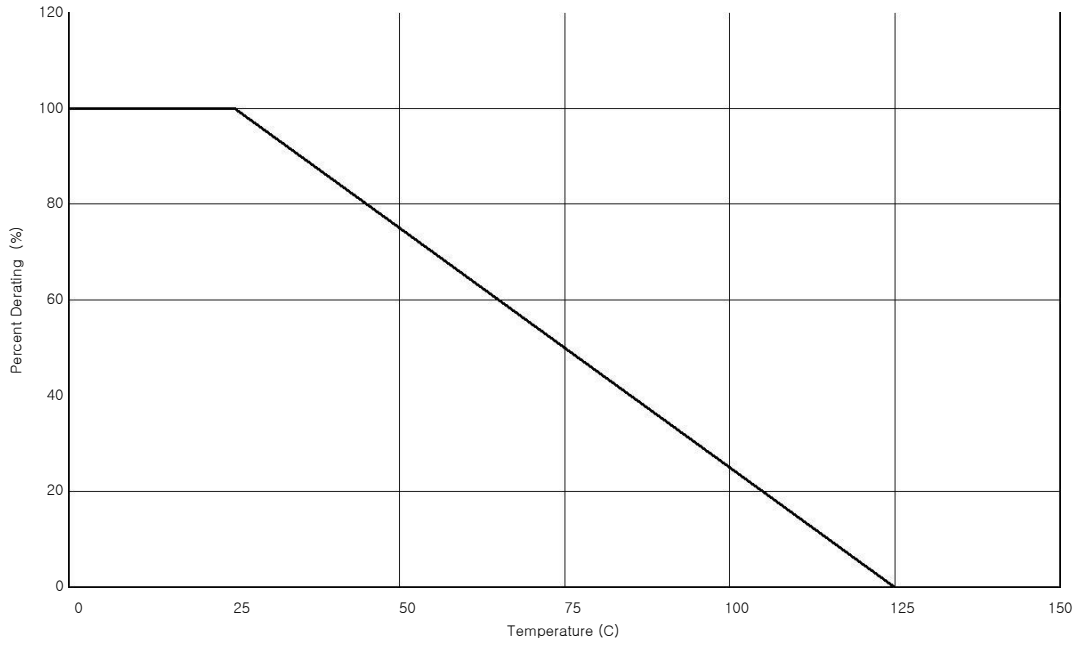


Figure 2. Peak Pulse Power Derating vs Temperature

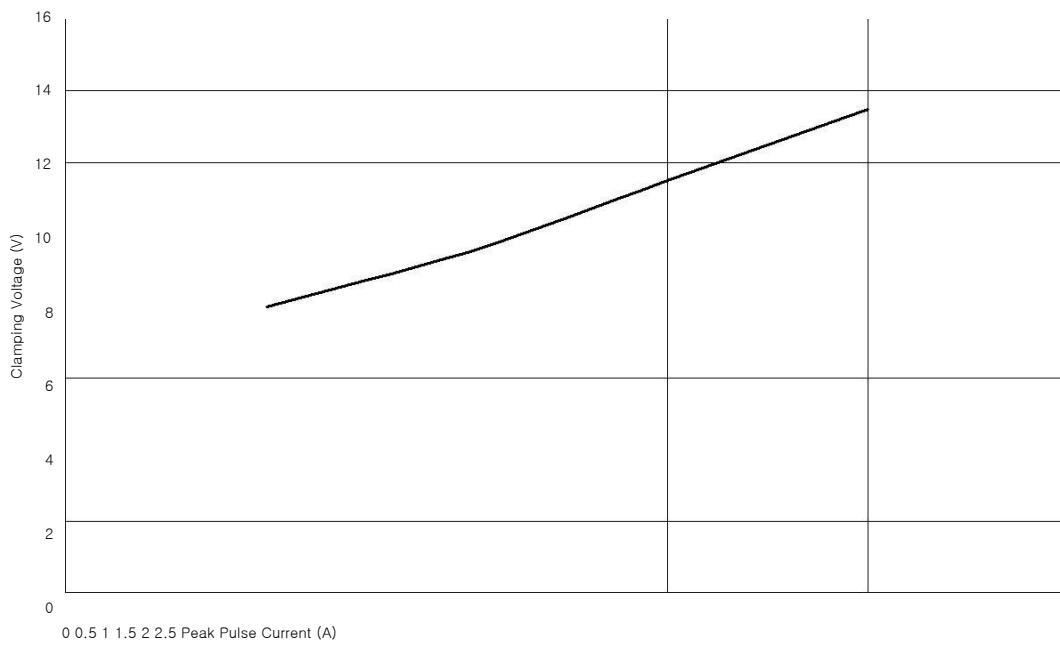


Figure 3. Peak Pulse Current vs Clamping Voltage

Typical Performance Curves

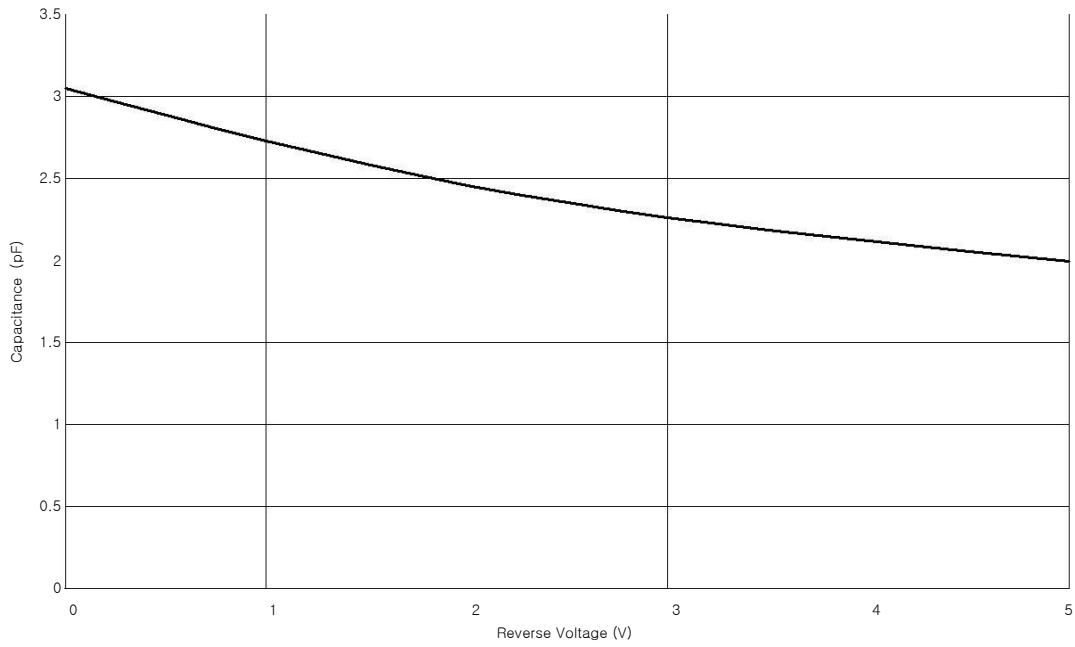
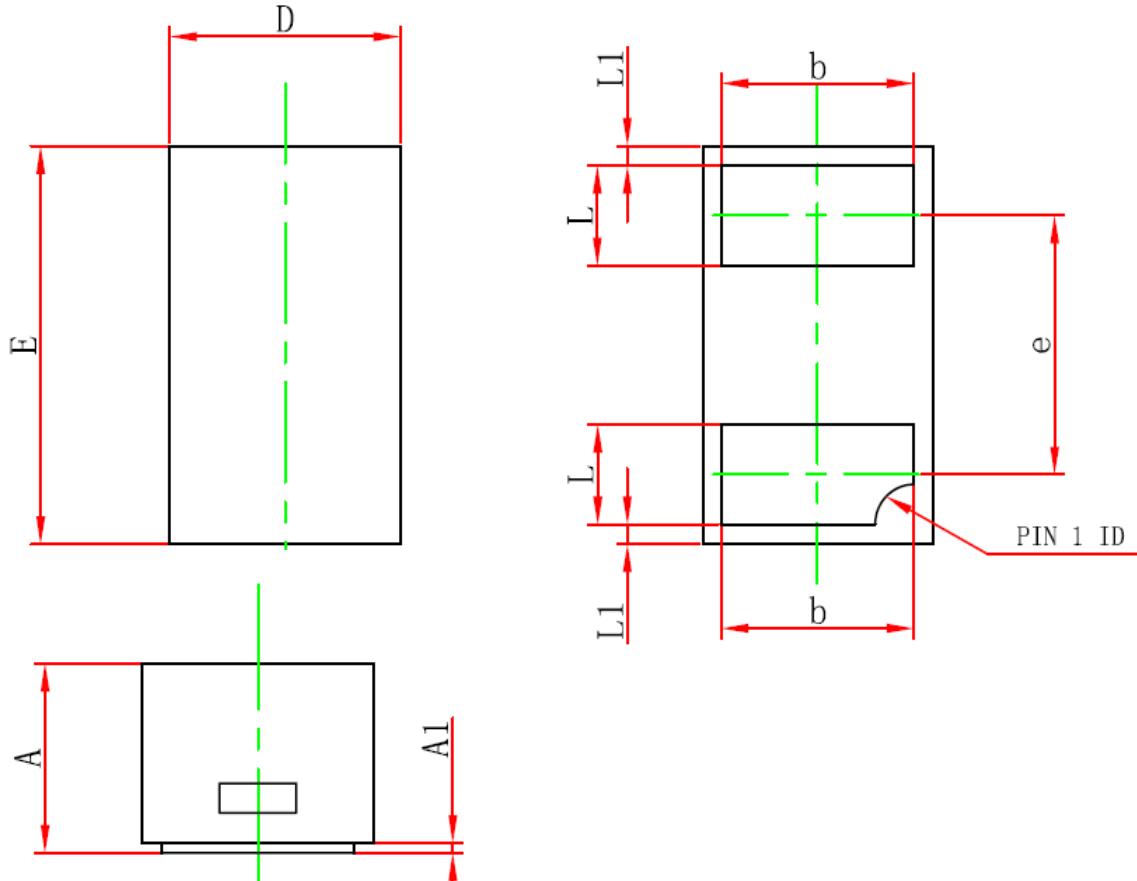


Figure 4. Reverse Voltage vs Capacitance

SOD882 Package Outline Drawing



| Symbol | Dimensions In Millimeters | | Dimensions In Inches | |
|--------|---------------------------|-------|----------------------|-------|
| | Min. | Max. | Min. | Max. |
| A | 0.400 | 0.500 | 0.016 | 0.020 |
| A1 | 0.000 | 0.050 | 0.000 | 0.002 |
| D | 0.550 | 0.650 | 0.022 | 0.026 |
| E | 0.950 | 1.050 | 0.037 | 0.041 |
| b | 0.400 | 0.600 | 0.016 | 0.024 |
| e | 0.650TYP. | | 0.026TYP. | |
| L | 0.150 | 0.350 | 0.006 | 0.014 |
| L1 | 0.050REF. | | 0.002REF. | |