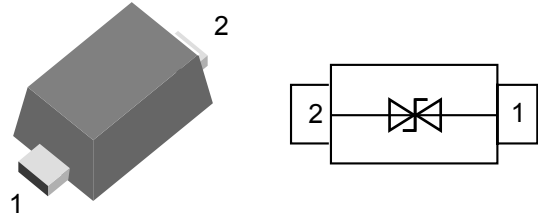


Features

- 100Watts peak pulse power ($t_p = 8/20\mu s$)
- SOD-523FL package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance ($C_j=0.7pF$ typ.)
- Protection one data/power line to:
 - IEC 61000-4-2 $\pm 25kV$ contact $\pm 25kV$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 7A (8/20 μs)



Mechanical Data

- **Case:** SOD-523FL (plastic package).
Lead free; RoHS compliant; Halogen free
- **Molding Compound Flammability Rating:**
UL 94 V-0
- **Terminals:** High temperature soldering guaranteed:
260 °C/10 sec. at terminals

Applications

- Computers and peripherals
- Communication systems
- Notebook
- Cellular handsets and accessories
- Portable electronics
- Audio and video equipment

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

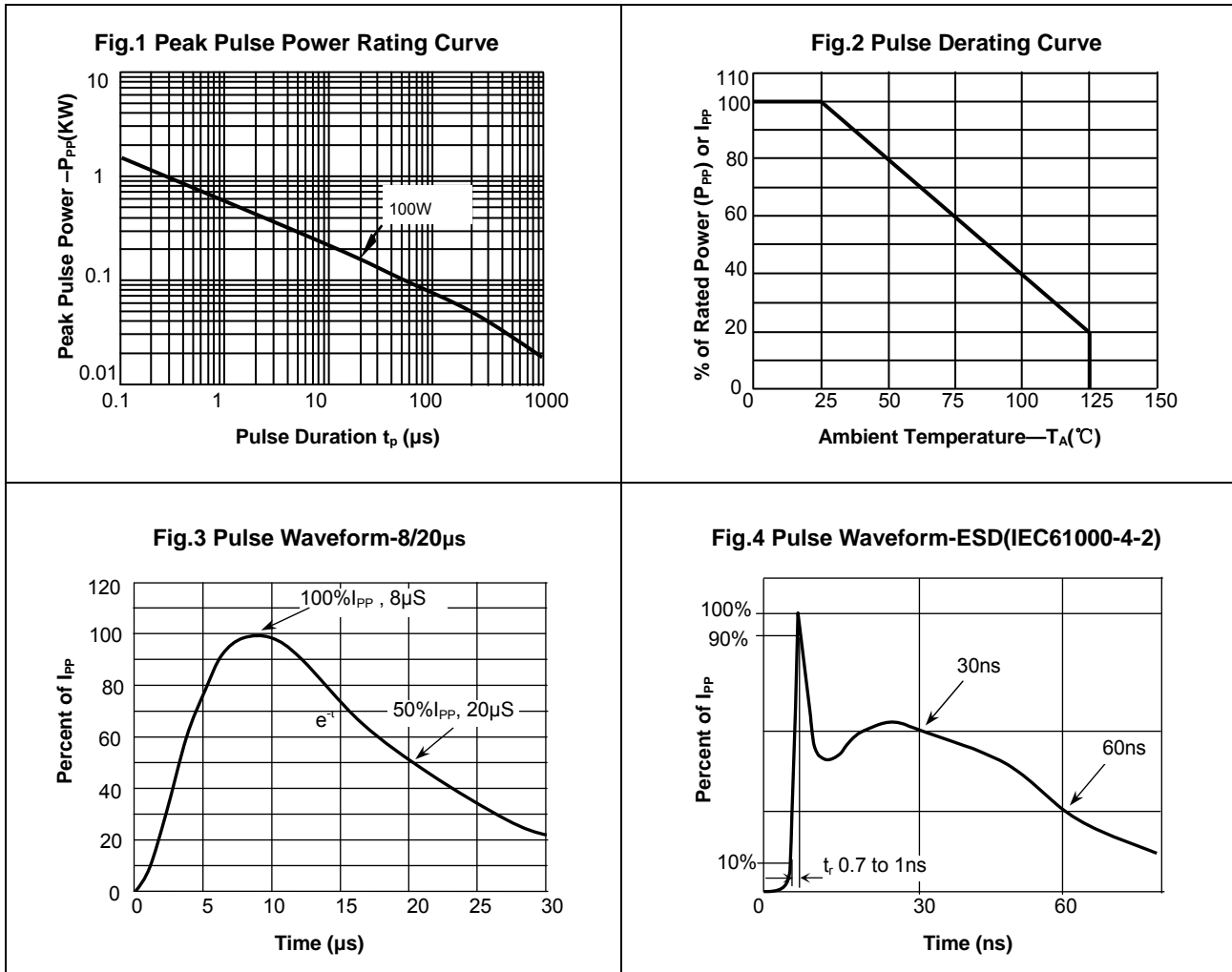
| Parameter | Symbol | Value | Unit |
|---|-----------|-------------|------|
| Peak Pulse Power ($T_P=8/20\mu S$) | P_{PP} | 100 | W |
| ESD contact/air discharge (IEC-61000-4-2) | V_{ESD} | 25 | kV |
| Peak Pulse Current ($t_P = 8/20\mu S$) | I_{PP} | 7 | A |
| Junction Temperature | T_J | -55 to +125 | °C |
| Storage temperature | T_{STG} | -55 to +150 | °C |

Electrical Characteristics

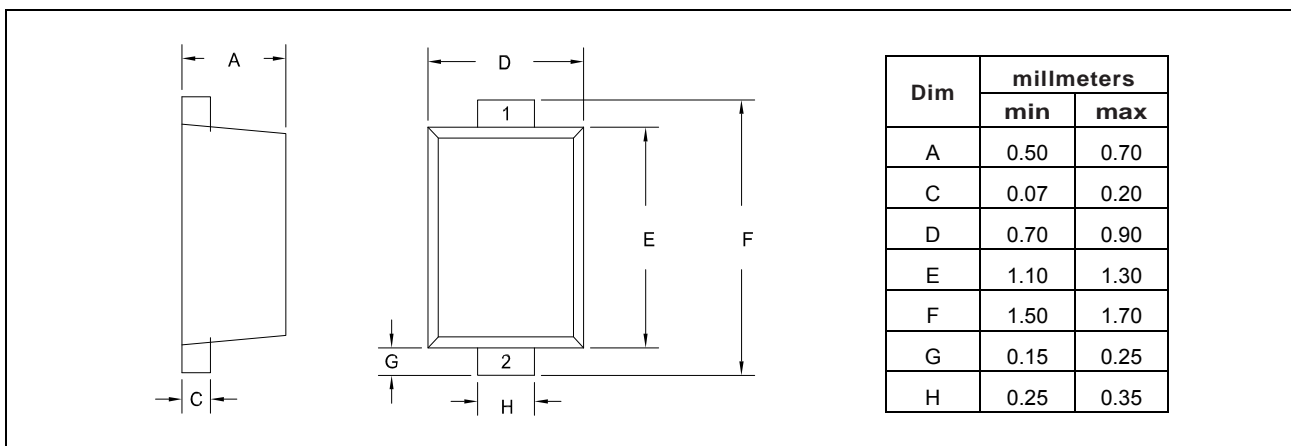
($T_A = 25\text{ °C}$ unless otherwise specified)

| Parameter | Symbol | ion | Min | Typ | Max | Unit |
|----------------------------------|-----------|------------------|-----|------|-----|---------|
| Reverse stand-off Voltage | V_{RWM} | | | | 5.0 | V |
| Reverse Breakdown Voltage | V_{BR} | $I_T=1mA$ | 6.0 | 8.0 | | V |
| Reverse Leakage Current | I_R | $V_R = 5.0V$ | | | 0.5 | μA |
| Clamping Voltage (IEC 61000-4-5) | V_C | $I_{PP} = 7A$ | | | 16 | V |
| Clamping Voltage (IEC 61000-4-2) | V_C | $V_{ESD}=8kV$ | | 13.5 | | V |
| Junction Capacitance | C_J | $V_R=0V, f=1MHz$ | | 0.7 | | pF |

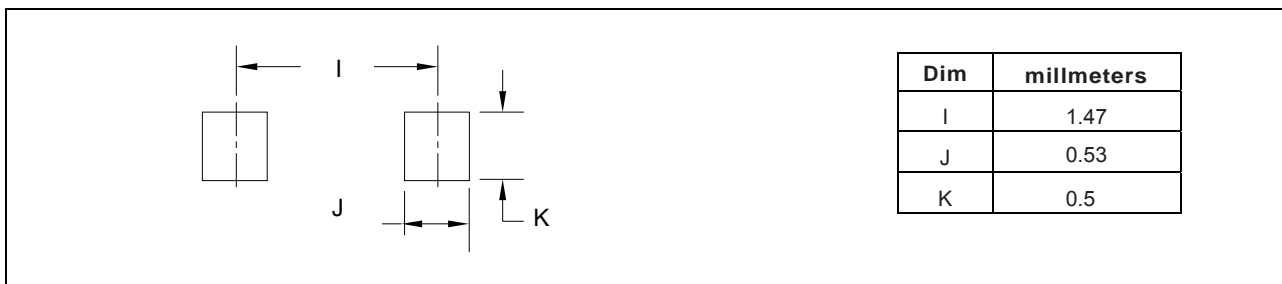
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



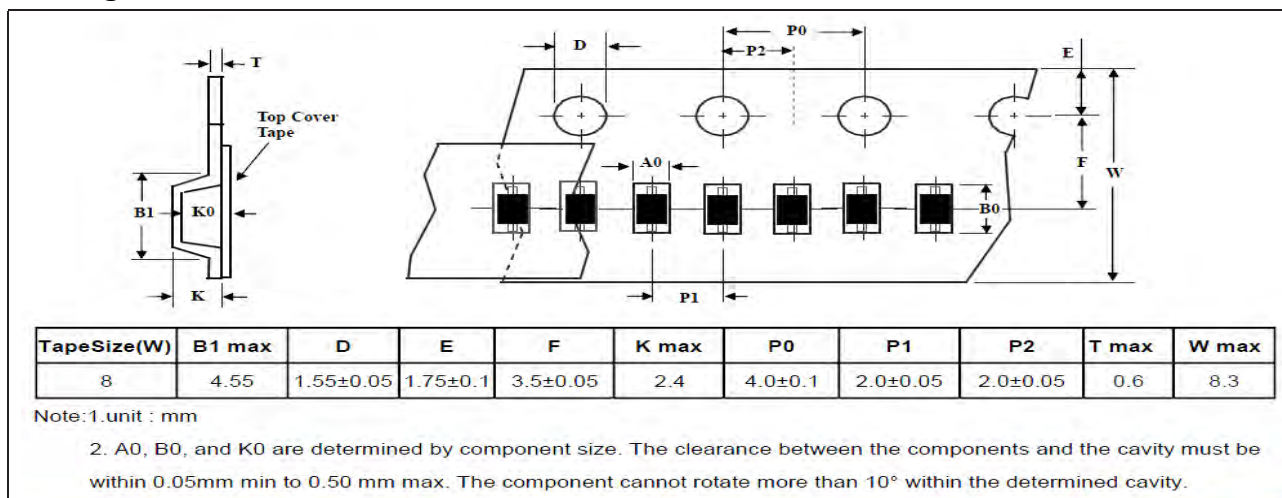
Package Dimensions



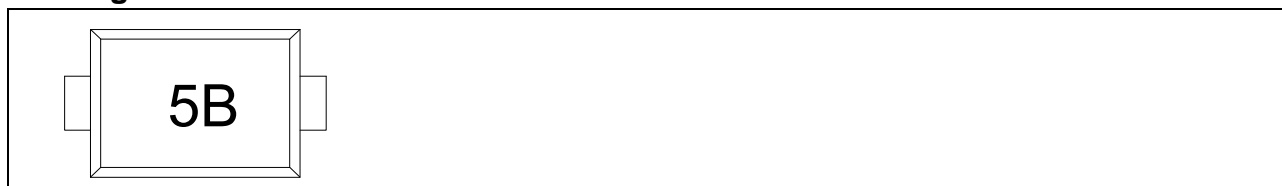
PAD Dimensions



Pakeage Information



Marking



Ordering information

| Order code | Package | Packaging option | Base quantity | Packaging specification |
|---------------|-----------|------------------|----------------|-------------------------|
| YEUSD520507AB | SOD-523FL | Tape and reel | 5000pcs / reel | EIA STD RS-481 |