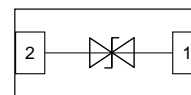


Key Features

- 250Watts peak pulse power ($T_P = 8/20\mu s$)
- DFN1006-2 package
- Bidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Medium capacitance ($C_j = 25\text{pF typ.}$)
- Protection one data/power line to:
 - IEC 61000-4-2 $\pm 30\text{kV}$ contact $\pm 30\text{kV}$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 8A (8/20 μs)



Applications

- Cellular Handsets & Accessories
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Portable Instrumentation

Electrical Characteristics

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

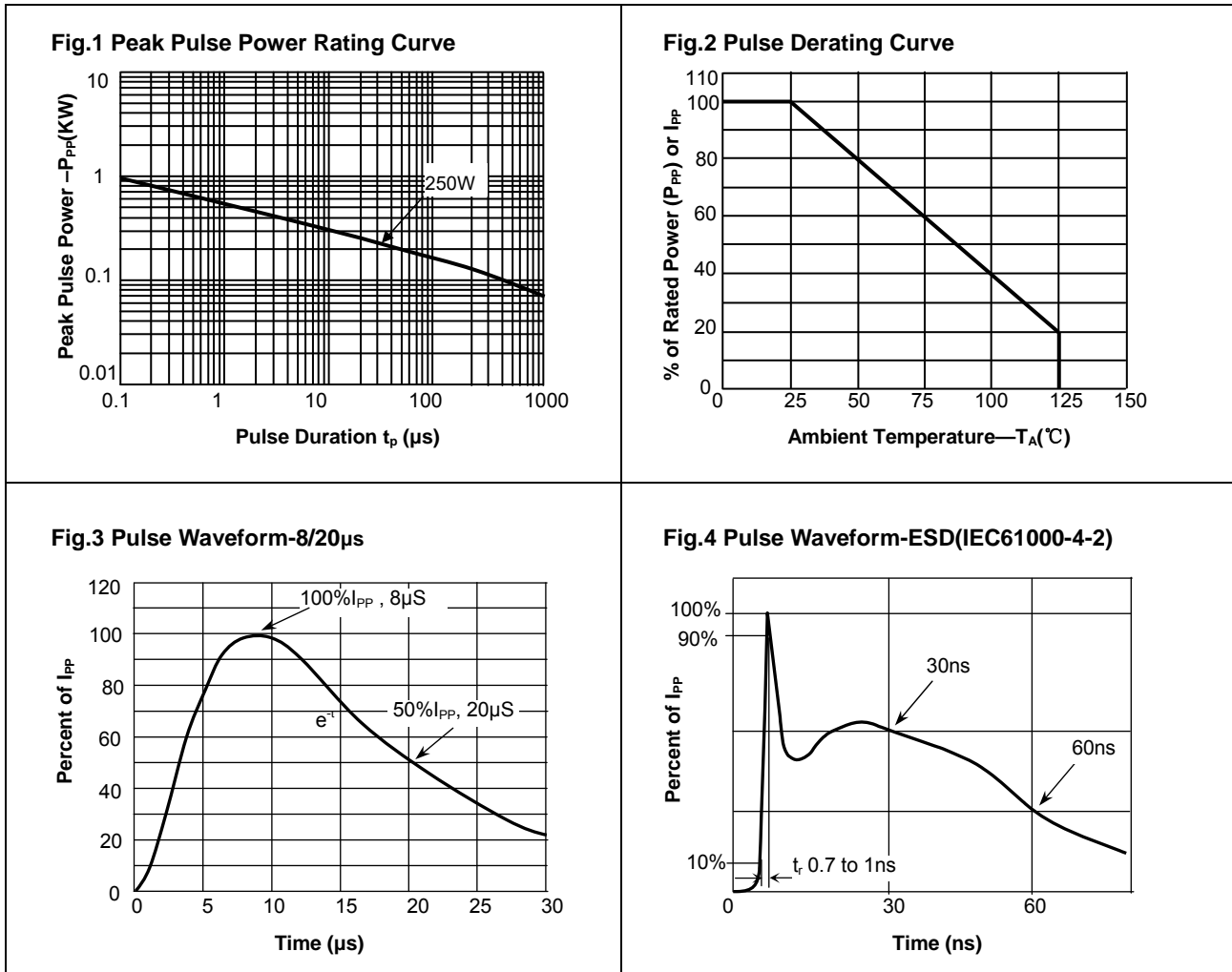
| Parameter | Symbol | Value | Unit |
|---|-----------|-------------|------------------|
| Peak Pulse Power ($T_P = 8/20\mu s$) | P_{PP} | 250 | W |
| ESD contact/air discharge (IEC-61000-4-2) | V_{ESD} | 30/30 | kV |
| Peak Pulse Current ($T_P = 8/20\mu s$) | I_{PP} | 8 | A |
| Junction Temperature | T_J | -55 to +125 | $^\circ\text{C}$ |
| Storage temperature | T_{STG} | -55 to +150 | $^\circ\text{C}$ |

Electrical Characteristics

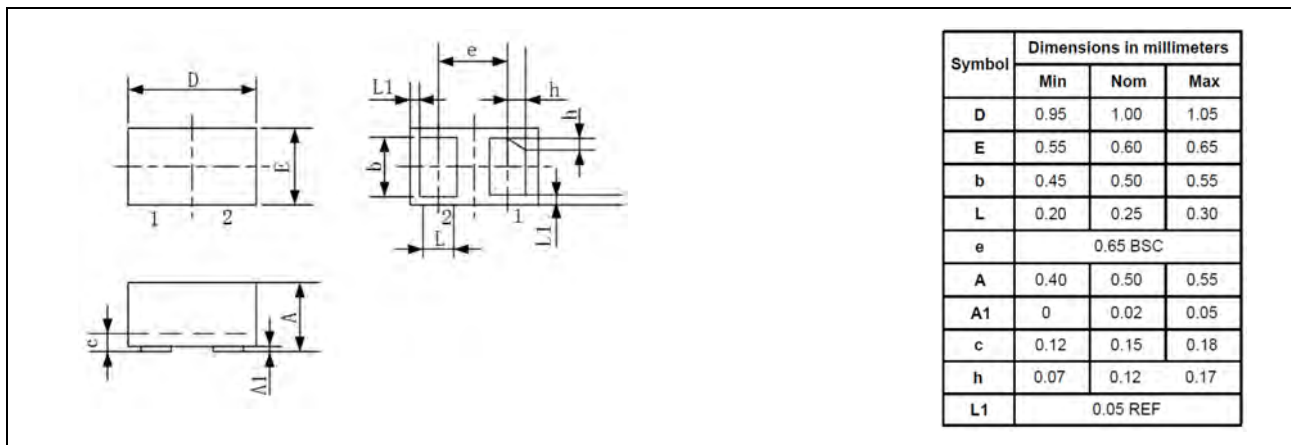
($T_A = 25^\circ\text{C}$ unless otherwise specified)

| Parameter | Symbol | Condition | Min | Typ | Max | Unit |
|----------------------------------|-----------|------------------------------------|------|-----|------|---------------|
| Reverse stand-off Voltage | V_{RWM} | | | | 15.0 | V |
| Reverse Breakdown Voltage | V_{BR} | $I_T = 1\text{mA}$ | 16.7 | | | V |
| Reverse Leakage Current | I_R | $V_R = 15\text{V}$ | | | 0.5 | μA |
| Clamping Voltage (IEC 61000-4-5) | V_C | $I_{PP} = 8\text{A}$ | | | 32 | V |
| Junction Capacitance | C_J | $V_R = 0\text{V}, f = 1\text{MHz}$ | | 25 | | pF |

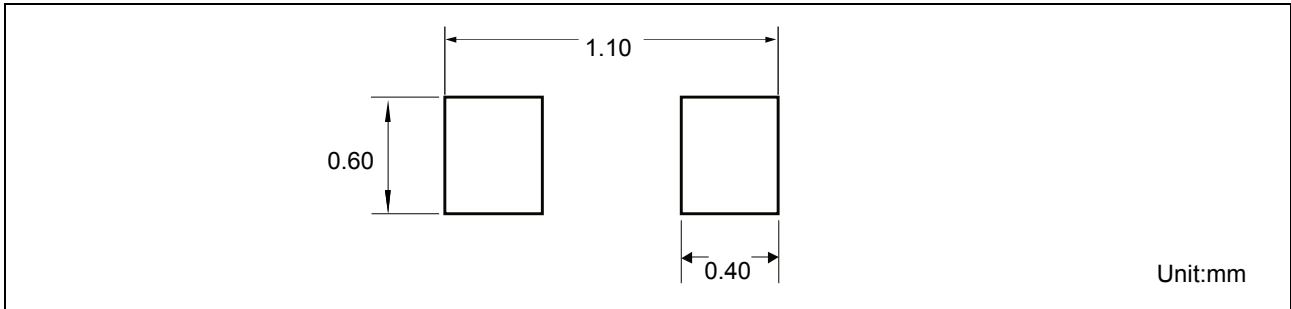
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



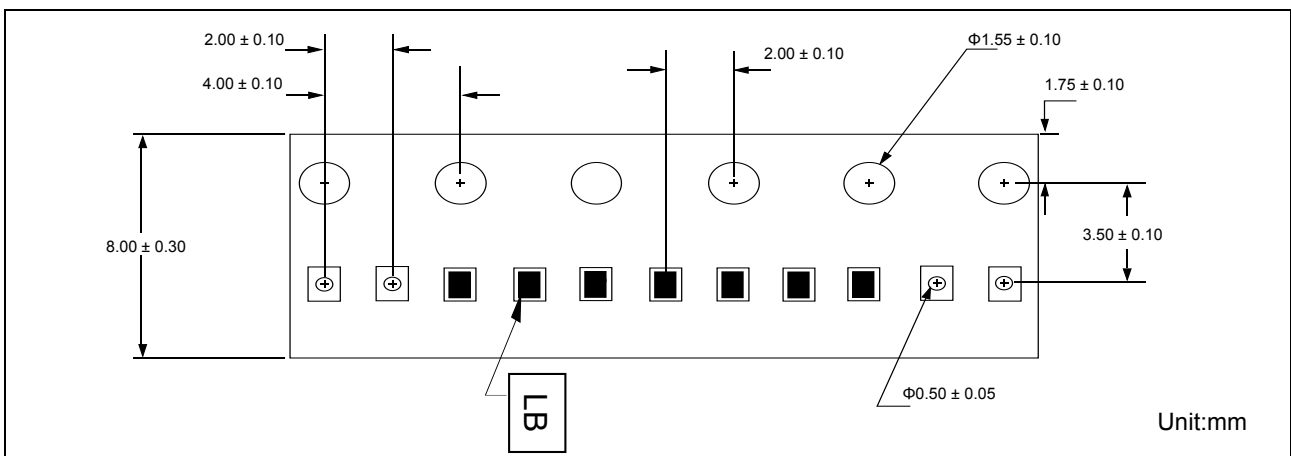
Package Dimensions



Pad Dimensions



Tape and Reel Specification



Marking



Ordering information

| Order code | Package | Packaging option | Base quantity | Packaging specification |
|---------------|-----------|------------------|-----------------|-------------------------|
| YEDD1021508AG | DFN1006-2 | Tape and reel | 10000pcs / reel | EIA STD RS-481 |