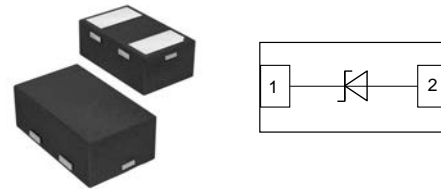


### Features

- 1680 Watts peak pulse power ( $T_P = 8/20\mu s$ )
- DFN1006-2 package
- Uni-directional configurations
- Low clamping voltage
- Low leakage current
- Normal capacitance ( $C_J = 110pF$  typ.)
- Protection one data/power line to:
  - IEC 61000-4-2  $\pm 30kV$  contact  $\pm 30kV$  air
  - IEC 61000-4-4 (EFT) 40A (5/50ns)
  - IEC 61000-4-5 (Lightning) 70A (8/20 $\mu s$ )



### Mechanical Data

- **Case:** DFN1006-2 (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

- Microprocessor based equipment
- Personal Digital Assistants (PDAs)
- Notebooks & Handhelds
- Portable Instrumentation
- Digital Cameras
- Portable Instrumentation

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

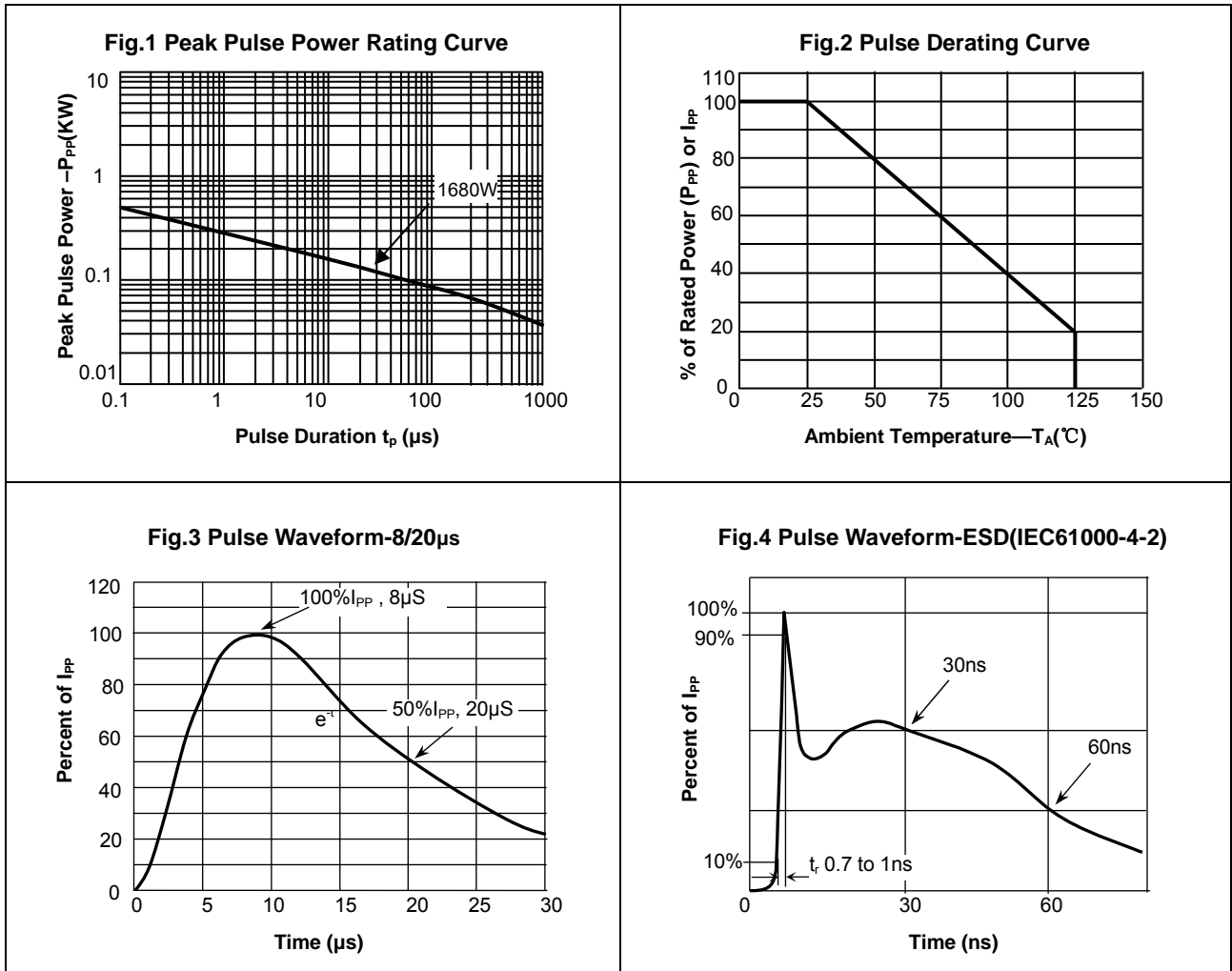
| Parameter                                 | Symbol    | Value       | Unit |
|---|-----------|-------------|------|
| Peak Pulse Power ( $T_P = 8/20\mu s$ )    | $P_{PP}$  | 1680        | W    |
| ESD contact/air discharge (IEC-61000-4-2) | $V_{ESD}$ | 30/30       | kV   |
| Peak Pulse Current ( $T_P = 8/20\mu s$ )  | $I_{PP}$  | 70          | A    |
| Junction Temperature                      | $T_J$     | -55 to +125 | °C   |
| Storage temperature                       | $T_{STG}$ | -55 to +150 | °C   |

### Electrical Characteristics

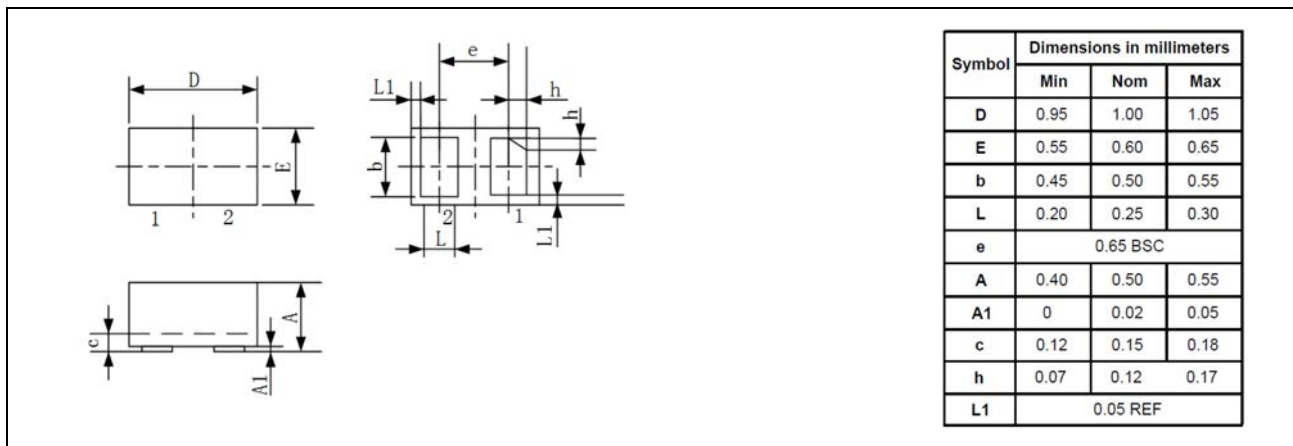
( $T_A = 25$  °C unless otherwise specified)

| Parameter                        | Symbol    | Condition            | Min  | Typ | Max  | Unit    |
|----------------------------------|-----------|----------------------|------|-----|------|---------|
| Reverse stand-off Voltage        | $V_{RWM}$ |                      |      |     | 12.0 | V       |
| Reverse Breakdown Voltage        | $V_{BR}$  | $I_T = 1mA$          | 13.3 |     |      | V       |
| Reverse Leakage Current          | $I_R$     | $V_{RWM} = 12V$      |      |     | 0.5  | $\mu A$ |
| Clamping Voltage (IEC 61000-4-5) | $V_C$     | $I_{PP} = 70A$       |      | 24  |      | V       |
| Junction Capacitance             | $C_J$     | $V_R = 0V, f = 1MHz$ |      | 110 |      | pF      |

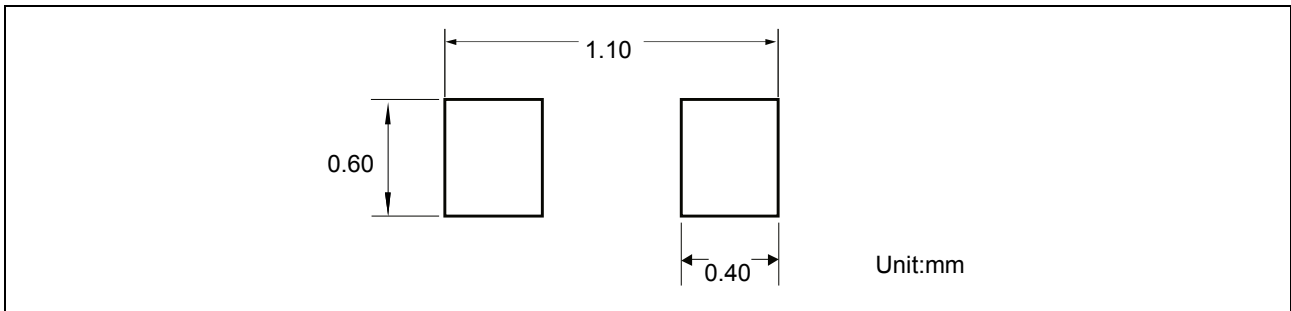
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



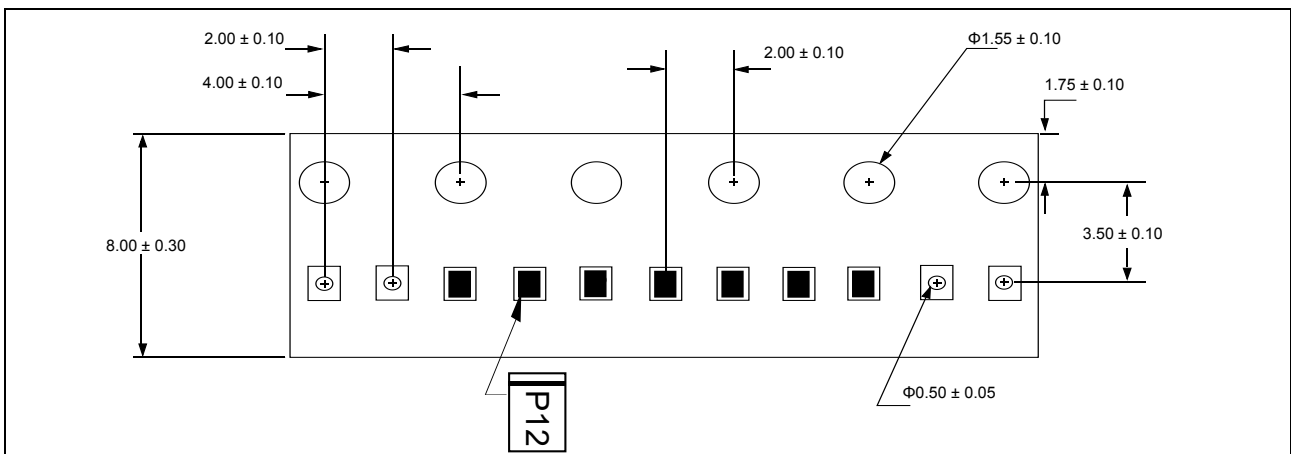
**Package Dimensions**



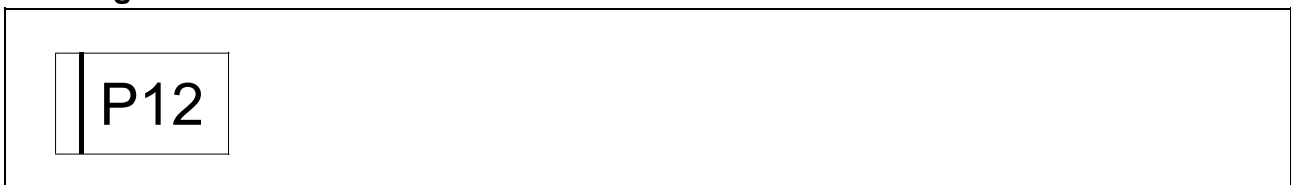
**Pad Dimensions**



**Tape and Reel Specification**



**Marking**



**Ordering information**

| Order code    | Package   | Packaging option | Base quantity   | Packaging specification |
|---------------|-----------|------------------|-----------------|-------------------------|
| YEDD1021270AV | DFN1006-2 | Tape and reel    | 10000pcs / reel | EIA STD RS-481          |