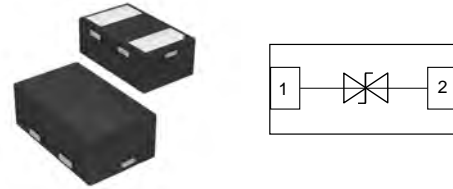


### Features

- 200Watts peak pulse power ( $T_p = 8/20\mu s$ )
- DFN1006-2 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Normal capacitance ( $C_j=1.2pF$  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) 12A (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

- Cell Phone Handsets and Accessories
- Microprocessor based equipment
- Personal Digital Assistants (PDA's)
- Notebooks, Desktops, and Servers
- Portable Instrumentation

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

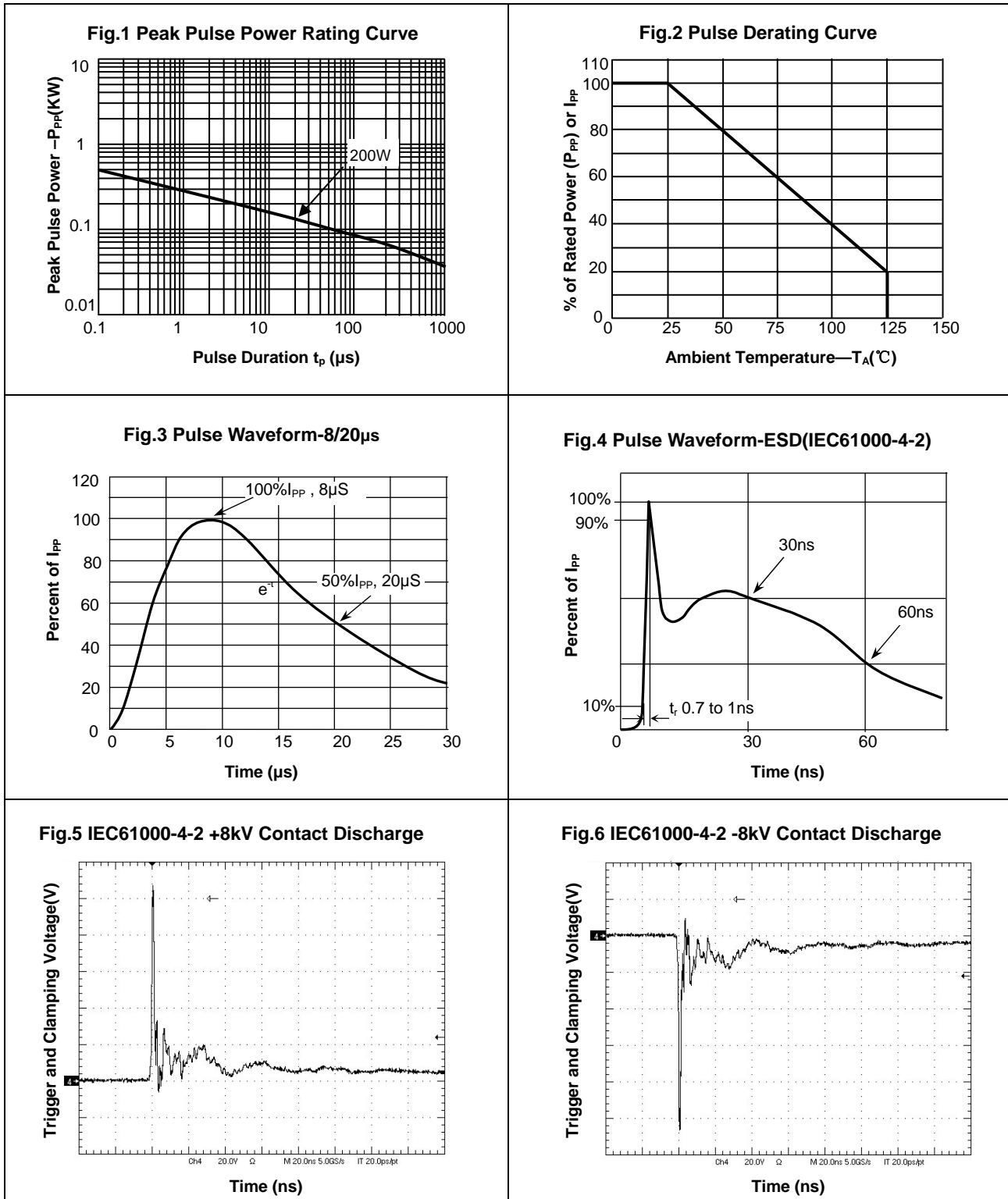
| Parameter                                 | Symbol    | Value       | Unit |
|-------------------------------------------|-----------|-------------|------|
| Peak Pulse Power ( $T_p=8/20\mu s$ )      | $P_{PP}$  | 200         | W    |
| ESD contact/air discharge (IEC-61000-4-2) | $V_{ESD}$ | 30/30       | kV   |
| Peak Pulse Current ( $t_p = 8/20\mu s$ )  | $I_{PP}$  | 12          | A    |
| Junction Temperature                      | $T_J$     | -55 to +125 | °C   |
| Storage temperature                       | $T_{STG}$ | -55 to +150 | °C   |

### Electrical Characteristics

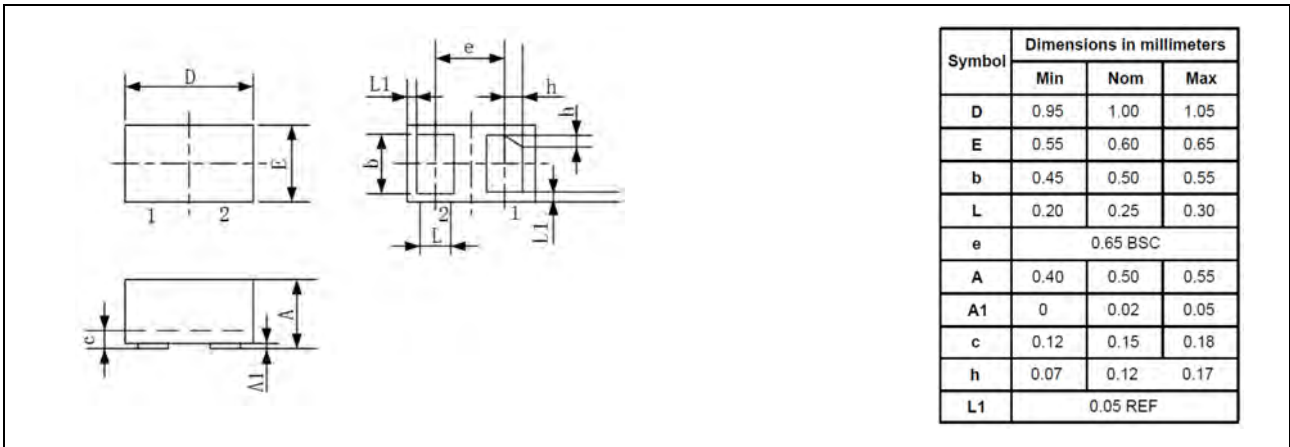
( $T_A = 25$  °C unless otherwise specified)

| Parameter                        | Symbol    | Condition        | Min | Typ | Max | Unit |
|----------------------------------|-----------|------------------|-----|-----|-----|------|
| Reverse stand-off Voltage        | $V_{RWM}$ |                  |     |     | 5   | V    |
| Reverse Breakdown Voltage        | $V_{BR}$  | $I_T=1mA$        | 6.0 | 8.0 |     | V    |
| Reverse Leakage Current          | $I_R$     | $V_{RWM}=5V$     |     |     | 500 | nA   |
| Clamping Voltage (IEC 61000-4-2) | $V_C$     | $V_{ESD}=8KV$    |     | 18  |     | V    |
| Clamping Voltage (IEC 61000-4-5) | $V_C$     | $I_{PP}=12A$     |     |     | 17  | V    |
| Junction Capacitance             | $C_J$     | $V_R=0V, f=1MHz$ |     | 1.2 |     | pF   |

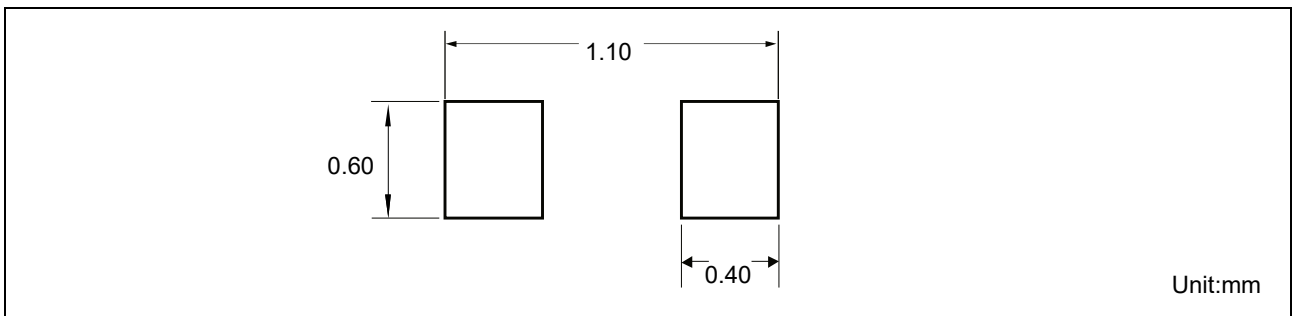
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



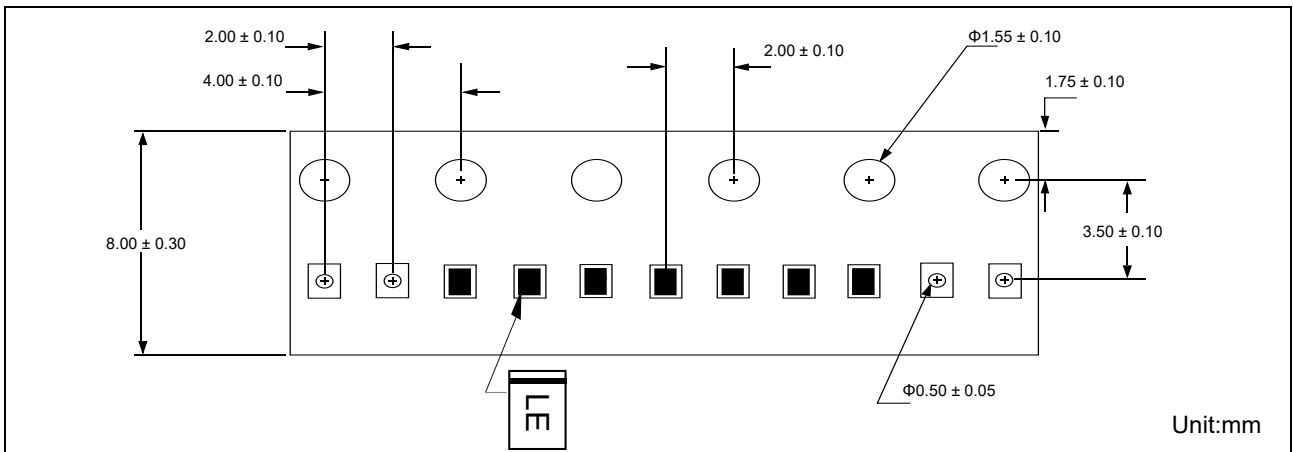
### Package Dimensions



### Pad Dimensions



### Tape and Reel Specification



### Ordering information

| Order code    | Marking | Package   | Packaging option | Base quantity   | Packaging specification |
|---------------|---------|-----------|------------------|-----------------|-------------------------|
| YELD1020512AG | LE      | DFN1006-2 | Tape and reel    | 10000pcs / reel | EIA STD RS-481          |