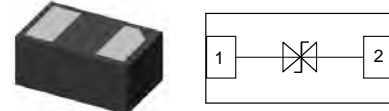


### Features

- 60Watts peak pulse power ( $T_P = 8/20\mu s$ )
- DFN1006-2 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Ultra Low capacitance ( $C_j=0.3pF$  typ.)
- Protection one data/power line to:
  - IEC 61000-4-2  $\pm 18kV$  contact  $\pm 20kV$  air
  - IEC 61000-4-4 (EFT) 40A (5/50ns)
  - IEC 61000-4-5 (Lightning) 3.5A (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
- Personal Digital Assistants (PDA's)
- Microprocessor based equipment
- Notebooks, Desktops, and Servers
- Portable Instrumentation

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

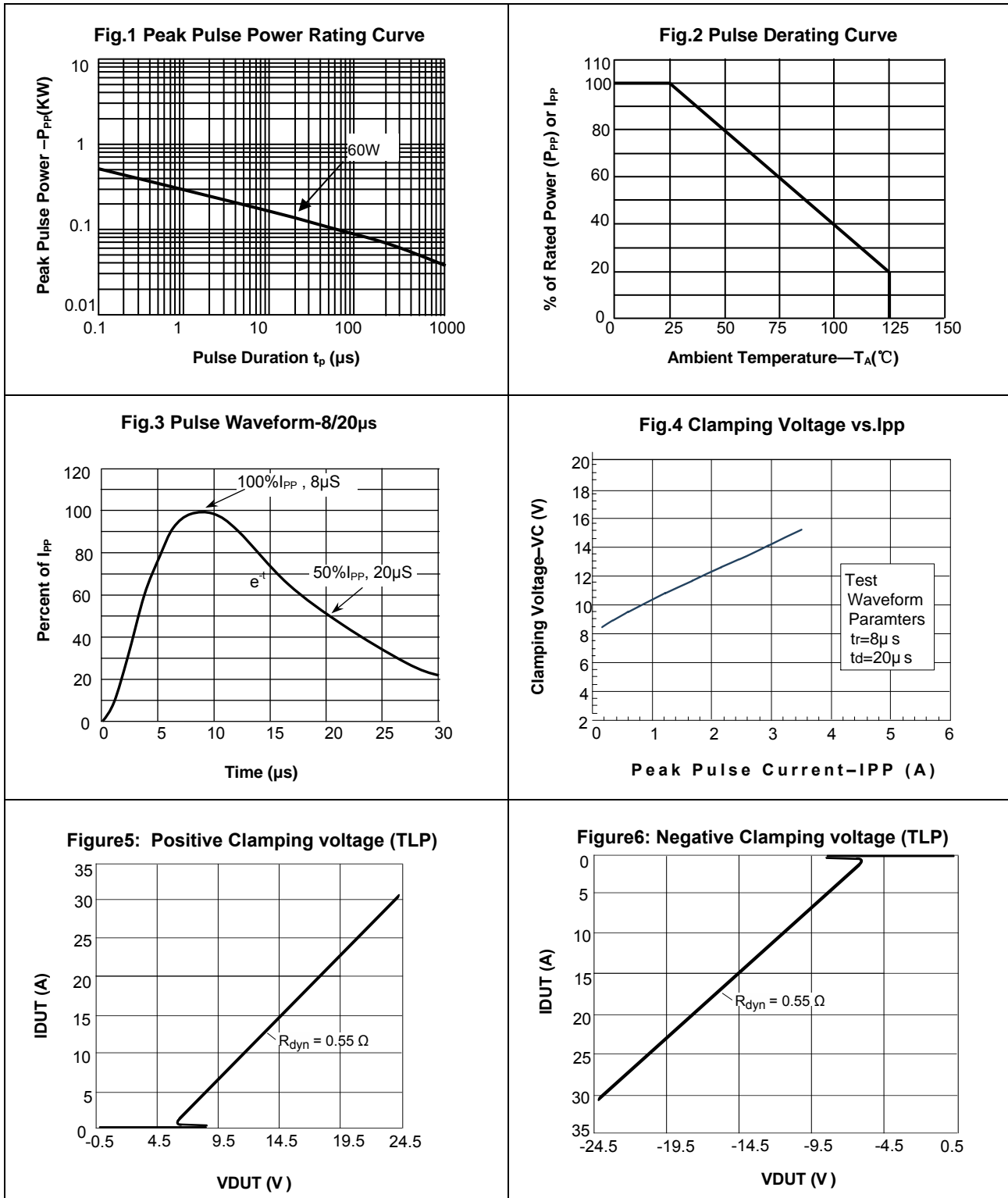
| Parameter                                 | Symbol    | Value       | Unit |
|---|-----------|-------------|------|
| Peak Pulse Power ( $T_P=8/20\mu s$ )      | $P_{PP}$  | 60          | W    |
| ESD contact/air discharge (IEC-61000-4-2) | $V_{ESD}$ | 18/20       | kV   |
| Peak Pulse Current ( $T_P = 8/20\mu s$ )  | $I_{PP}$  | 3.5         | A    |
| Junction Temperature                      | $T_J$     | -55 to +125 | °C   |
| Storage temperature                       | $T_{STG}$ | -55 to +150 | °C   |

### Electrical Characteristics

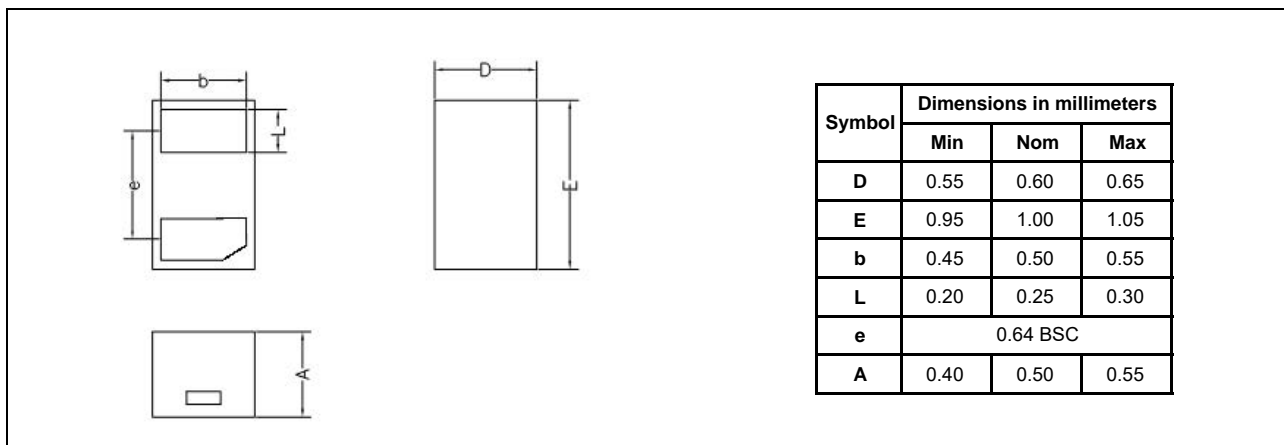
( $T_A = 25$  °C unless otherwise specified)

| Parameter                 | Symbol    | Condition                    | Min | Typ  | Max | Unit     |
|---------------------------|-----------|------------------------------|-----|------|-----|----------|
| Reverse stand-off Voltage | $V_{RWM}$ |                              |     |      | 5.0 | V        |
| Reverse Breakdown Voltage | $V_{BR}$  | $I_T=1mA$                    | 6.0 | 7.0  |     | V        |
| Reverse Leakage Current   | $I_R$     | $V_{RWM}=5V$                 |     |      | 100 | nA       |
| Clamping Voltage          | $V_C$     | $I_{PP}=3.5A, T_P=8/20\mu s$ |     | 15   |     | V        |
| Clamping Voltage(TLP)     | $V_C$     | $I_{PP}=16A, T_P=100ns$      |     |      | 15  | V        |
| Dynamic Resistance        | $R_{dyn}$ | $T_P=100ns$                  |     | 0.55 |     | $\Omega$ |
| Junction Capacitance      | $C_J$     | $V_R=0V, f=1MHz$             |     | 0.3  |     | pF       |

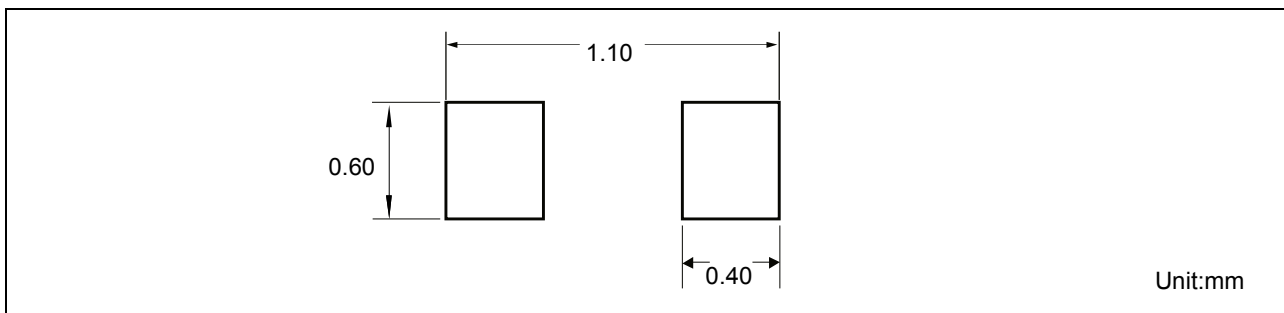
Typical Characteristics ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



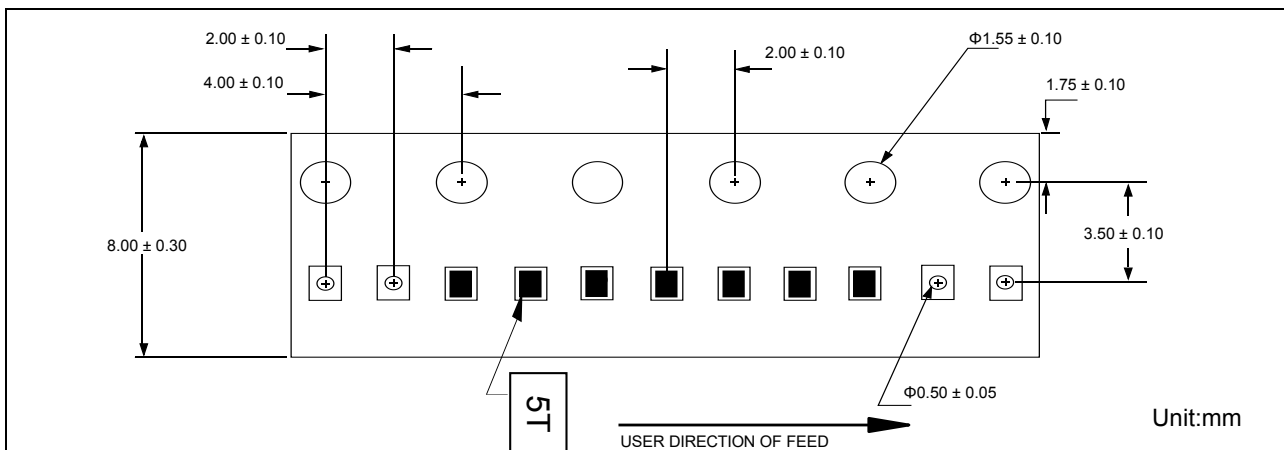
### Package Dimensions



### Pad Dimensions



### Tape and Reel Specification



### Ordering information

| Order code    | Marking | Package   | Packaging option | Base quantity   | Packaging specification |
|---------------|---------|-----------|------------------|-----------------|-------------------------|
| YEUD102053A5G | 5T      | DFN1006-2 | Tape and reel    | 10000pcs / reel | EIA STD RS-481          |