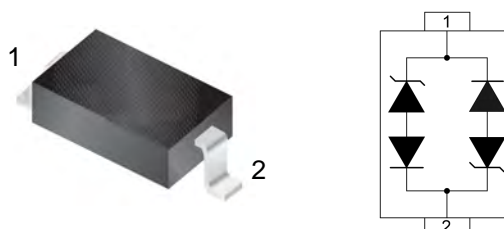


### Features

- 350Watts peak pulse power ( $T_P = 8/20\mu s$ )
- SOD-323 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Low capacitance ( $C_j = 1pF$  typ.)
- Protection one data/power line to:
  - ISO 10605  $\pm 15kV$  contact  $\pm 25kV$  air
  - IEC 61000-4-4 (EFT) 40A (5/50ns)
  - IEC 61000-4-5 (Lightning) 11A (8/20  $\mu s$ )
- AEC-Q101 Qualified



### Mechanical Data

- **Case:** SOD-323 (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

- Ethernet - 10/100/1000 Base T
- Cellular Phones
- Handheld - Wireless Systems
- Personal Digital Assistant (PDA)
- USB Interface

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

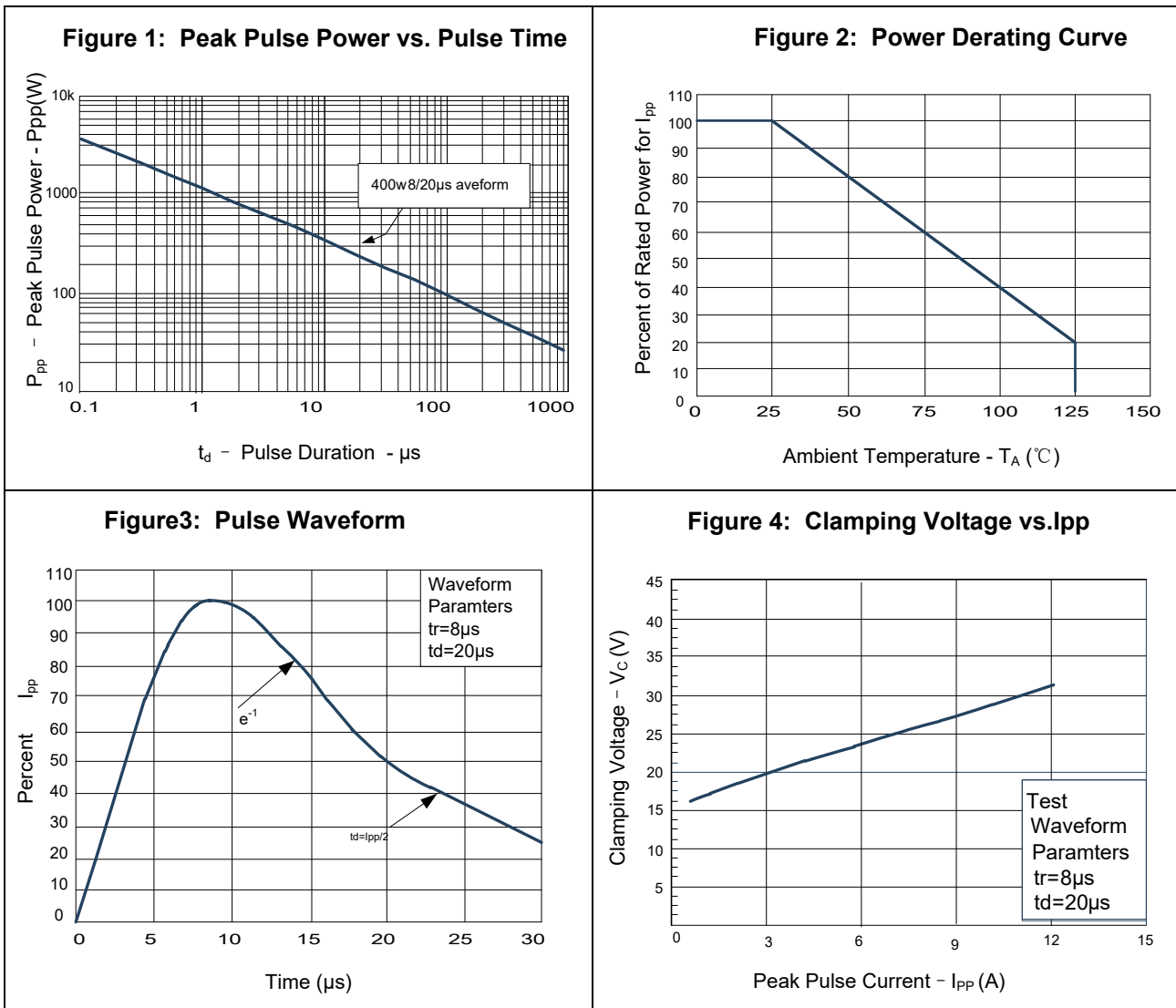
| Parameter                                | Symbol    | Value       | Unit |
|--|-----------|-------------|------|
| Peak Pulse Power ( $T_P = 8/20\mu s$ )   | $P_{PP}$  | 350         | W    |
| ESD contact/air discharge (ISO 10605 )   | $V_{ESD}$ | 15/25       | kV   |
| Peak Pulse Current ( $T_P = 8/20\mu s$ ) | $I_{PP}$  | 11          | A    |
| Junction Temperature                     | $T_J$     | -55 to +150 | °C   |
| Storage temperature                      | $T_{STG}$ | -55 to +150 | °C   |

### Electrical Characteristics

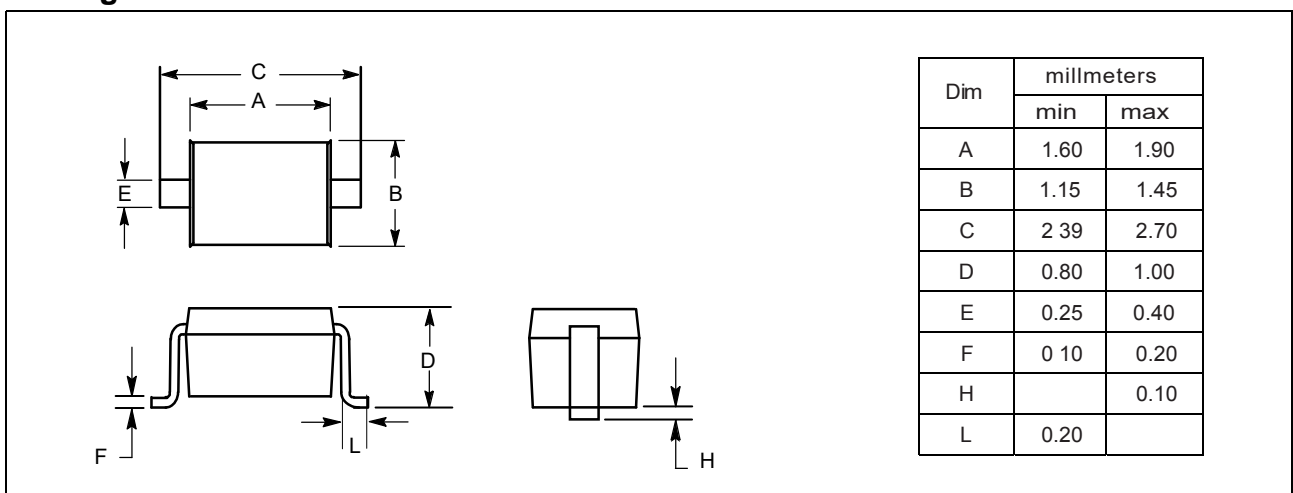
( $T_A = 25$  °C unless otherwise specified)

| Parameter                        | Symbol    | Condition            | Min  | Typ | Max | Unit    |
|----------------------------------|-----------|----------------------|------|-----|-----|---------|
| Reverse stand-off Voltage        | $V_{RWM}$ |                      |      |     | 12  | V       |
| Reverse Breakdown Voltage        | $V_{BR}$  | $I_T = 1mA$          | 13.3 | 14  |     | V       |
| Reverse Leakage Current          | $I_R$     | $V_R = 12V$          |      |     | 1   | $\mu A$ |
| Clamping Voltage (IEC 61000-4-5) | $V_C$     | $I_{PP} = 11A$       |      | 30  |     | V       |
| Junction Capacitance             | $C_J$     | $V_R = 0V, f = 1MHz$ |      | 1   |     | pF      |

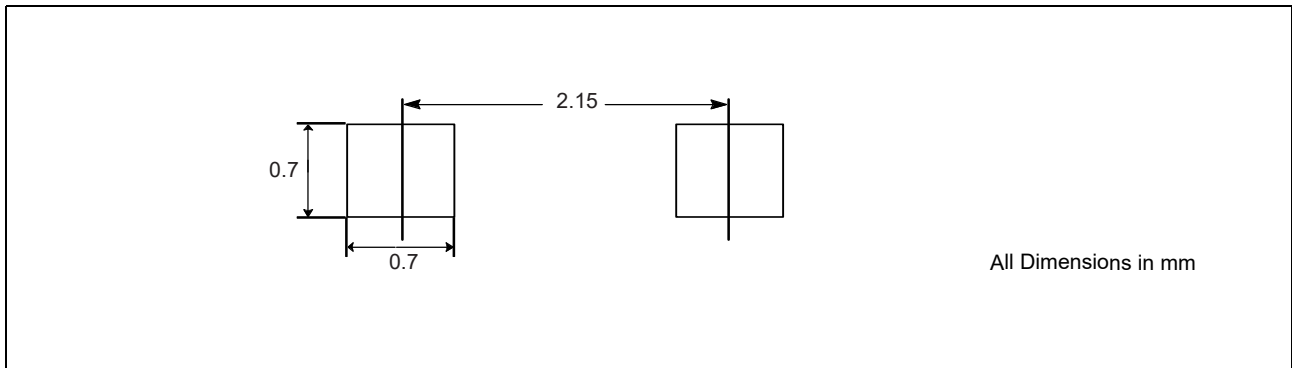
**Typical Characteristics** ( $T_{amb} = 25\text{ }^{\circ}\text{C}$  unless otherwise specified)



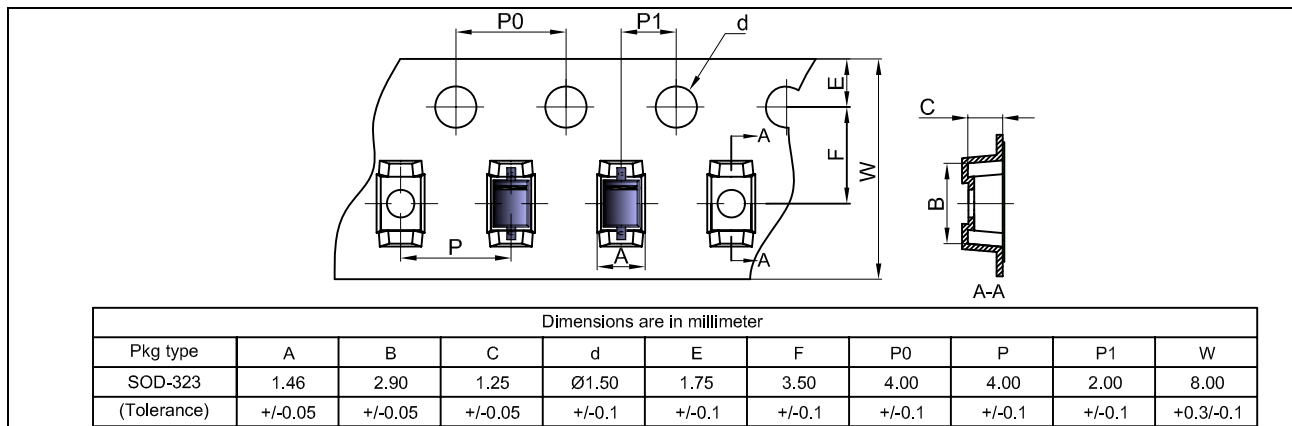
**Package Dimensions**



### PAD Dimension



### Package Information



### Marking



### Ordering information

| Order code    | Package | Packaging option | Base quantity  | Packaging specification |
|---------------|---------|------------------|----------------|-------------------------|
| YELSD321211AH | SOD-323 | Tape and reel    | 3000pcs / reel | EIA STD RS-481          |