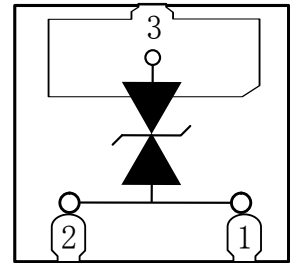


### Features

- 6000 Watts peak pulse power ( $t_p = 8/20\mu s$ )
- DFN2020-3 package
- Bidirectional configurations
- Low clamping voltage
- Low leakage current
- Medium capacitance ( $C_j = 700pF$  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) 290A (8/20 $\mu s$ )



### Mechanical Data

- **Case:** DFN2020-3 (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

- Power supply protection
- Personal digital assistant s (PDA's)
- Microprocessors based equipment
- Power Management
- Cell phone Handsets and Accessories
- Portable Electronics

### Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

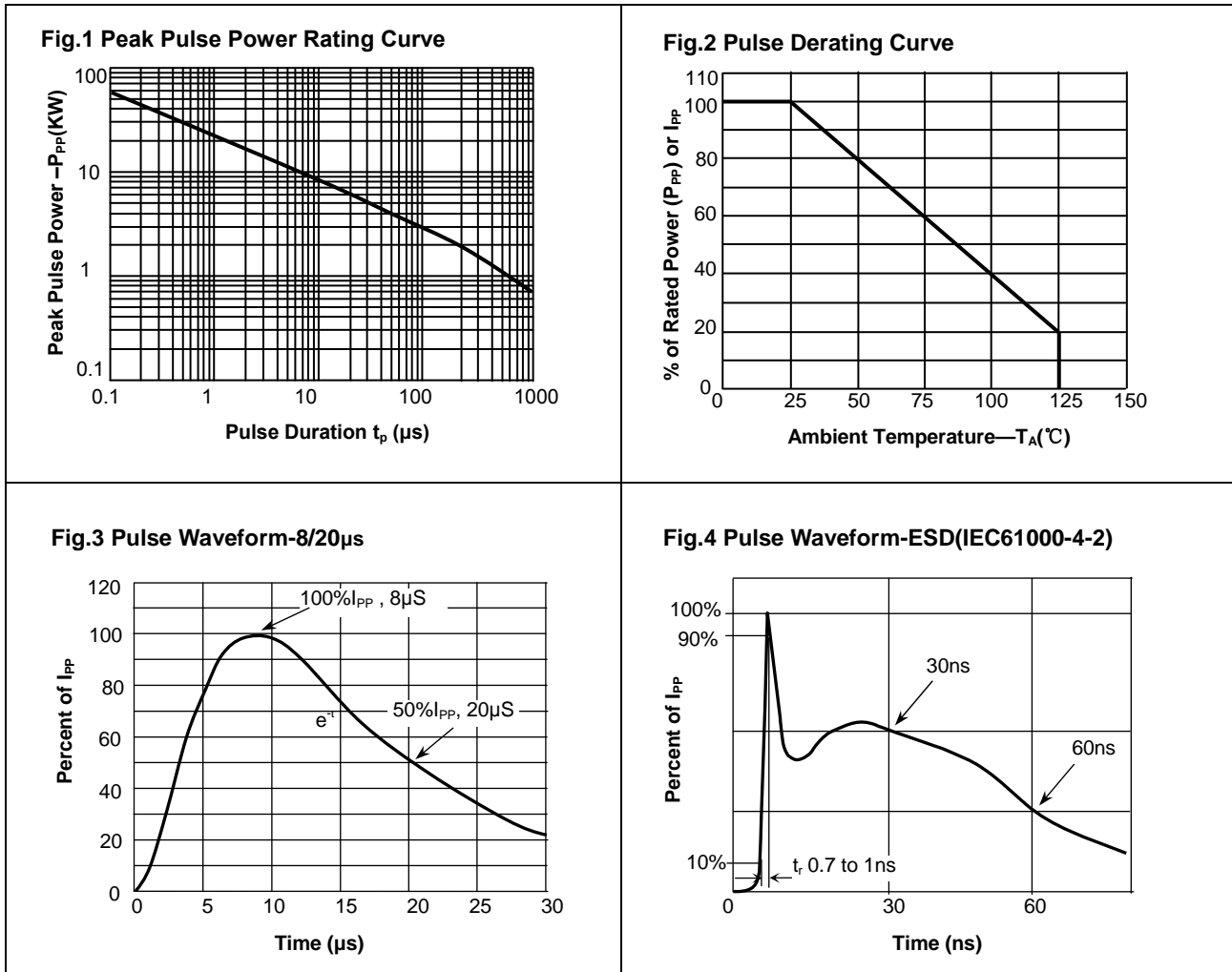
| Parameter                                 | Symbol    | Value       | Unit |
|---|-----------|-------------|------|
| Peak Pulse Power ( $T_p=8/20\mu S$ )      | $P_{PP}$  | 6000        | W    |
| ESD contact/air discharge (IEC-61000-4-2) | $V_{ESD}$ | 30/30       | kV   |
| Peak Pulse Current ( $t_p = 8/20\mu S$ )  | $I_{PP}$  | 290         | A    |
| Junction Temperature                      | $T_J$     | -55 to +125 | °C   |
| Storage temperature                       | $T_{STG}$ | -55 to +150 | °C   |

### Electrical Characteristics

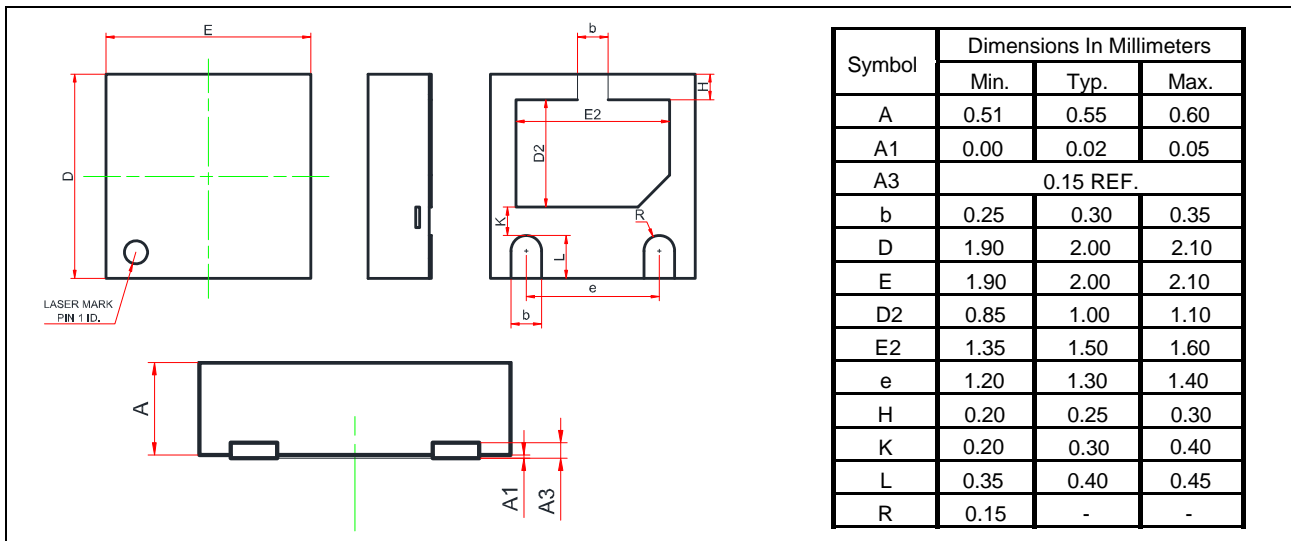
( $T_A = 25$  °C unless otherwise specified)

| Parameter                        | Symbol    | Condition        | Min | Typ | Max | Unit    |
|----------------------------------|-----------|------------------|-----|-----|-----|---------|
| Reverse stand-off Voltage        | $V_{RWM}$ |                  |     |     | 4.5 | V       |
| Reverse Breakdown Voltage        | $V_{BR}$  | $I_T=1mA$        |     | 5.4 |     | V       |
| Reverse Leakage Current          | $I_R$     | $V_R=4.5V$       |     |     | 1   | $\mu A$ |
| Clamping Voltage (IEC 61000-4-5) | $V_C$     | $I_{PP}=150A$    |     |     | 16  | V       |
| Clamping Voltage (IEC 61000-4-5) | $V_C$     | $I_{PP}=200A$    |     |     | 18  | V       |
| Clamping Voltage (IEC 61000-4-5) | $V_C$     | $I_{PP}=290A$    |     |     | 21  | V       |
| Junction Capacitance             | $C_J$     | $V_R=0V, f=1MHz$ |     | 700 |     | pF      |

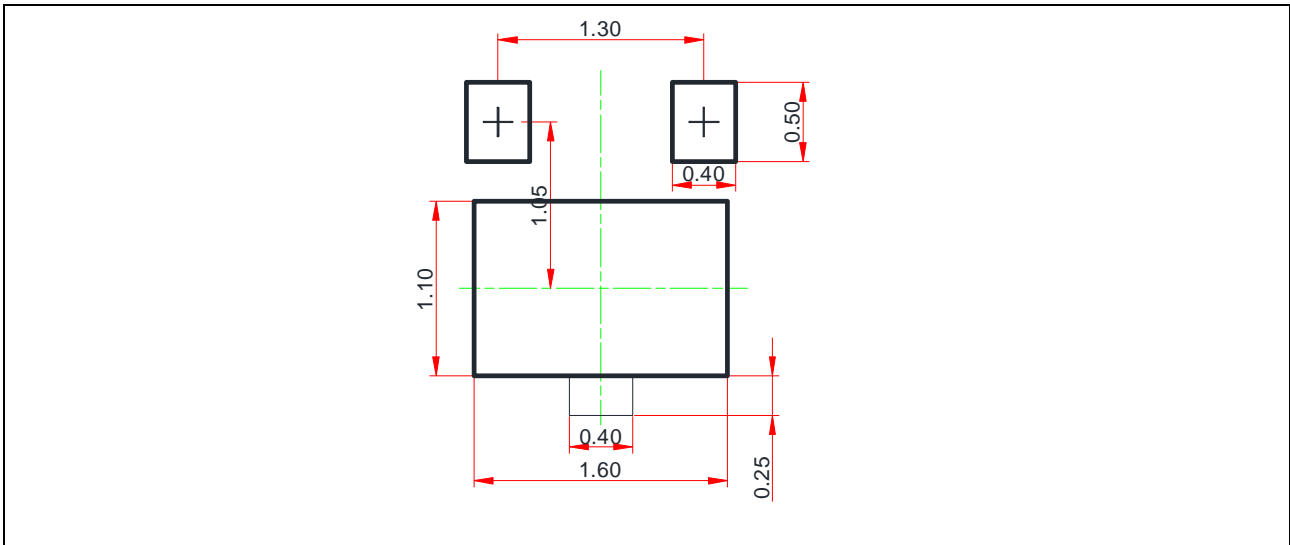
### Typical Characteristics ( $T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



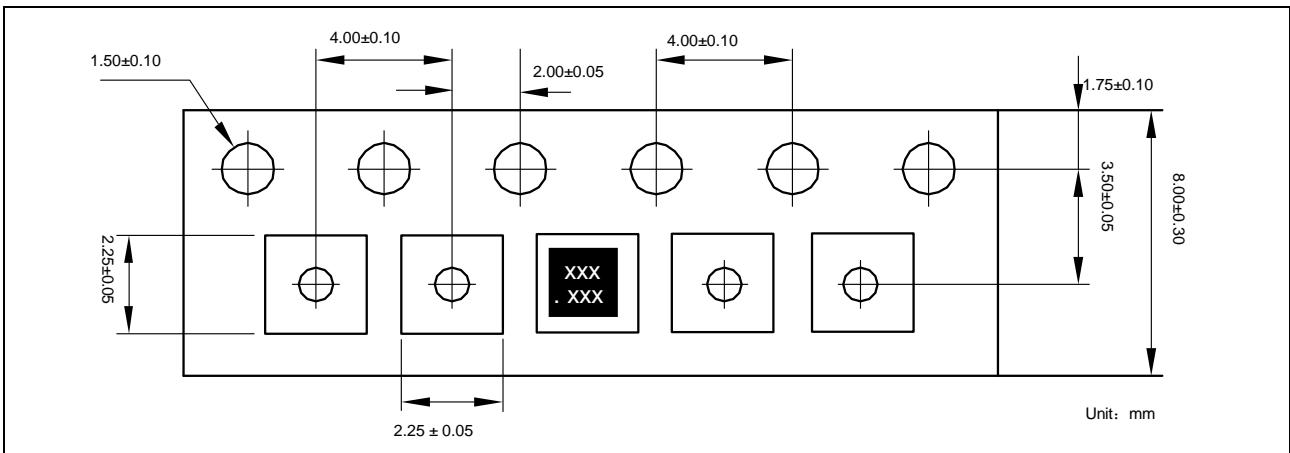
### Package Dimensions



**PAD Dimensions**



**Package information**



**Ordering information**

| Order code    | Marking     | Package   | Packaging option | Base quantity  | Packaging specification |
|---------------|-------------|-----------|------------------|----------------|-------------------------|
| YED20F34R290G | 3N45 or T45 | DFN2020-3 | Tape and reel    | 3000pcs / reel | EIA STD RS-481          |