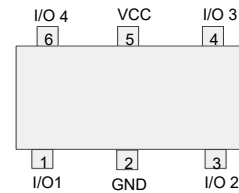
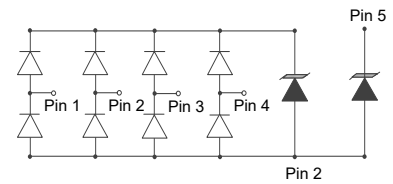


Features

- 60Watts peak pulse power ($t_p = 8/20\mu s$)
- SOT-23-6 Package
- Unidirectional configurations
- Solid-state silicon-avalanche technology
- Low clamping voltage
- Low leakage current
- Low capacitance (0.3pF typical I/O to I/O)
- ESD Protection for high-speed data lines to:
 - IEC 61000-4-2 $\pm 25KV$ contact $\pm 25KV$ air
 - IEC 61000-4-4 (EFT) 40A (5/50ns)
 - IEC 61000-4-5 (Lightning) 4A (8/20 μs)



Mechanical Data

- **Case:** SOT-23-6 (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
- USB 3.0, USB 2.0, MHL
- Unified Display Interface (UDI)
- Digital Visual Interface (DVI)
- High speed serial interfaces

Absolute Maximum Ratings

Ratings at 25 °C, ambient temperature unless otherwise specified

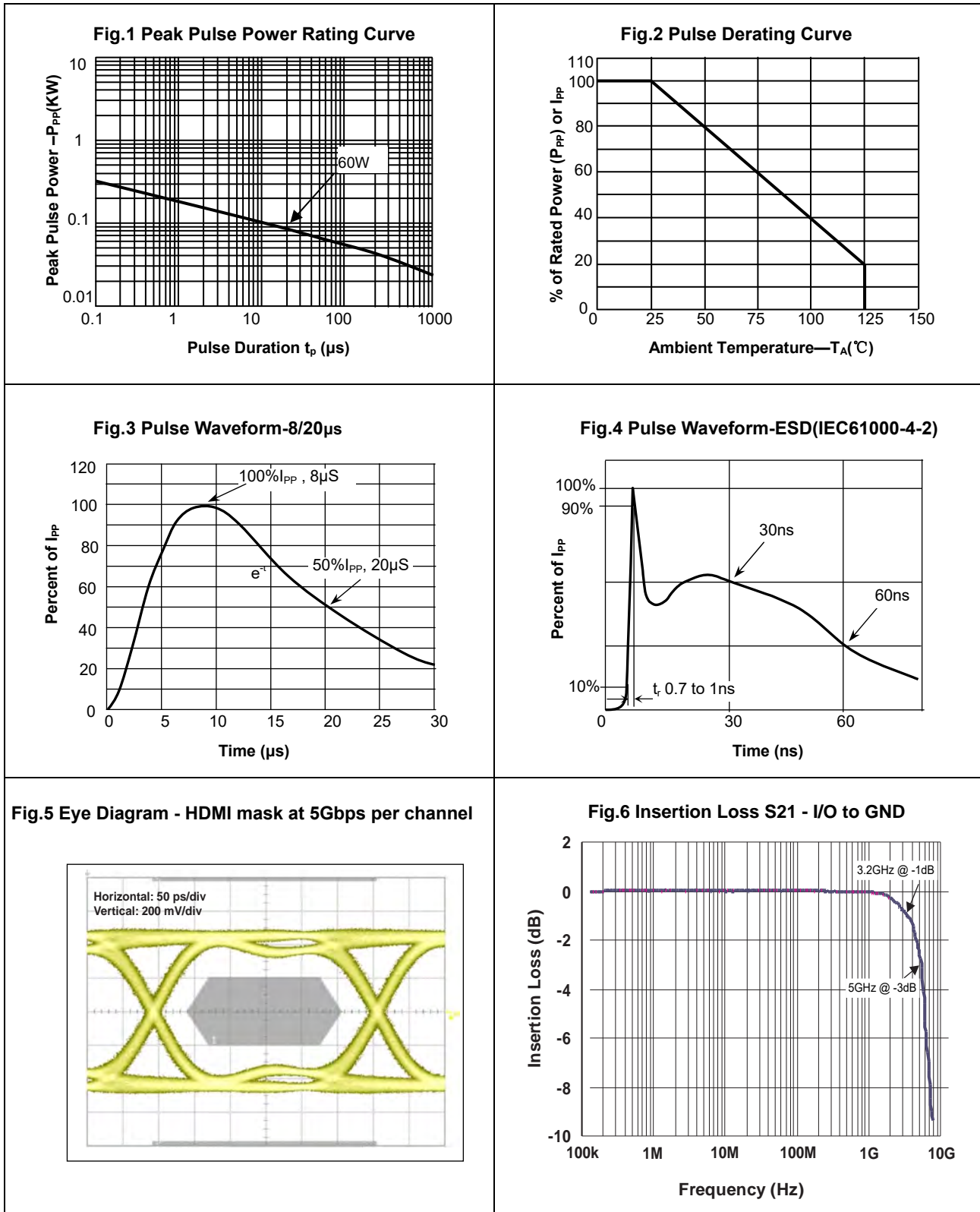
| Parameter | Symbol | Value | Unit |
|---|-----------|-------------|------|
| Peak Pulse Power ($T_P=8/20\mu s$) | P_{PP} | 60 | W |
| ESD contact/air discharge (IEC-61000-4-2) | V_{ESD} | 25/25 | kV |
| Peak Pulse Current ($T_P = 8/20\mu s$) | I_{PP} | 4.0 | A |
| Junction Temperature | T_J | -55 to +125 | °C |
| Storage temperature | T_{STG} | -55 to +150 | °C |

Electrical Characteristics

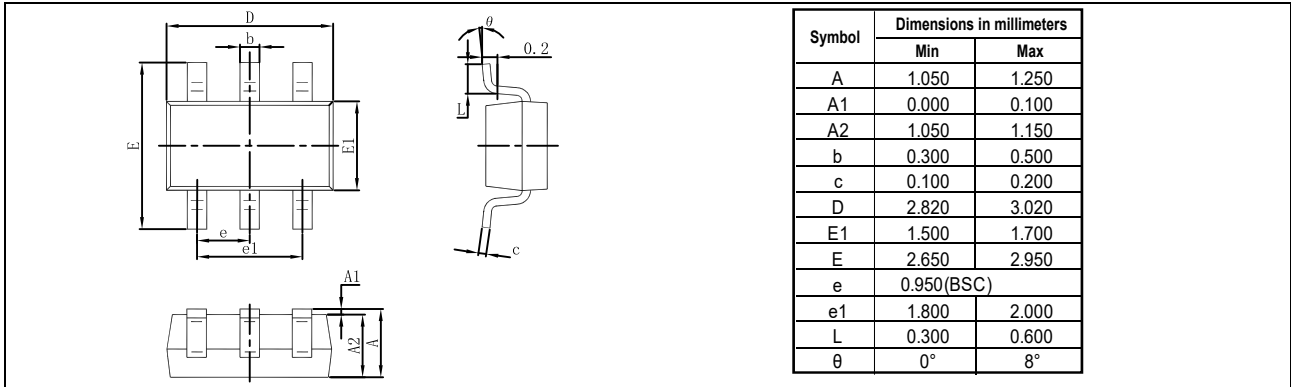
($T_A = 25\text{ °C}$ unless otherwise specified)

| Parameter | Symbol | Condition | Min | Typ | Max | Unit |
|---------------------------|-----------|---------------------------------|-----|-----|-----|------|
| I/O port TVS | | | | | | |
| Reverse Stand-Off Voltage | V_{RWM} | | | | 5.0 | V |
| Reverse Breakdown Voltage | V_{BR} | $I_T=1mA$ | 6.0 | 8.0 | | V |
| Reverse Leakage Current | I_R | $V_{RWM}=5V, T=25\text{ °C}$ | | 0.2 | 0.5 | uA |
| Clamping Voltage | V_C | $I_{PP}=4.0A, t_p=8/20\mu s$ | | 10 | 15 | V |
| Junction Capacitance | C_j | $V_R = 0V, f = 1MHz$ I/O to I/O | | 0.3 | | pF |
| | | $V_R = 0V, f = 1MHz$ I/O to GND | | 0.6 | | pF |
| VCC TVS | | | | | | |
| Reverse Stand-Off Voltage | V_{RWM} | | | | 5.0 | V |
| Reverse Breakdown Voltage | V_{BR} | $I_T=1mA$ | 6.0 | | | V |
| Reverse Leakage Current | I_R | $V_{RWM}=5V, T=25\text{ °C}$ | | | 1 | uA |
| Clamping Voltage | V_C | $I_{PP}=20A, t_p=8/20\mu s$ | | 12 | 15 | V |
| Junction Capacitance | C_j | $V_R = 0V, f = 1MHz$ VCC to GND | | 160 | | pF |

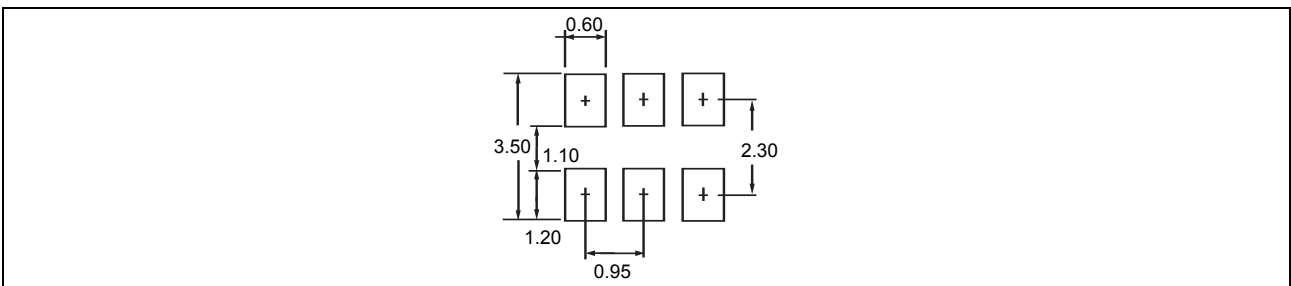
Typical Characteristics ($T_{amb} = 25\text{ }^{\circ}\text{C}$ unless otherwise specified)



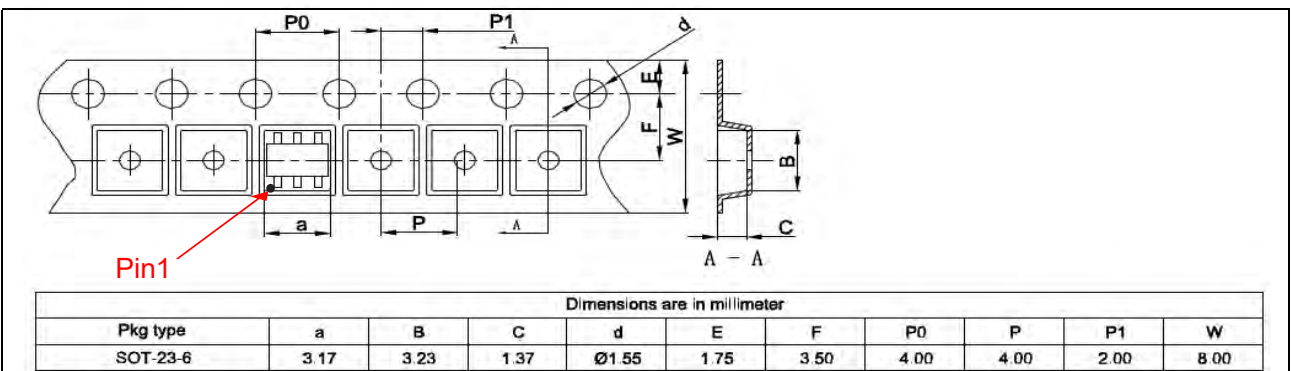
Package Dimensions



Pad dimensions



Package information



Marking



Ordering information

| Order code | Package | Packaging option | Base quantity | Packaging specification |
|---------------|----------|------------------|----------------|-------------------------|
| YEUST260504AV | SOT-23-6 | Tape and reel | 3000pcs / reel | EIA STD RS-481 |