

Description

The AU1261D1F-T are transient voltage suppressor designed to protect sensitive electronic equipment from damage induced by lightning and voltage transients.

Features

- Glass passivated or planar junction
- Excellent clamping capability
- Repetition rate (duty cycle): 0.01%
- Low profile package and low inductance
- Fast response time: typically less than 1.0ps from 0V to VBR min.
- High temperature soldering: 260°C/10s at terminals.
- Plastic package has Underwriters Laboratory Flammability 94V-0.
- For surface mounted applications in order to optimize board space.
- Complies with following standards:
 - IEC 61000-4-2 (ESD) immunity test

Air discharge: ±30kV

Contact discharge: ±30kV

Device Schematic



Bi-directional

Circuit Schematic

Mechanical Characteristics

- Package: SOD-123FL Molded plastic
- Case Material: “Green” Molding Compound.
- UL Flammability Classification Rating 94V-0
- Polarity: Color band denotes cathode except bi-directional models
- Terminal Connections: See Diagram Below
- Marking Information: See Below

Applications

- I/O Interface.
- AC/DC Power supply
- Low frequency signal transmission line (RS232, RS485, etc.)

Marking Information



EUE = Marking Code

Ordering Information

Part Number	Packaging	Reel Size
AU1261D1F-T	3000/Tape & Reel	7 inch

Electrical Characteristics ($T_A=25^{\circ}\text{C}$ unless otherwise specified)

Part Number	Marking code	Reverse Stand off Voltage VRWM (Volts)	Breakdown Voltage VBR (Volts) @IT		Test Current IT (mA)	Maximum Clamping Voltage Vc @IPP (Volts)	Maximum Peak Pulse Current Ipp (8/20Amps)	Maximum Reverse Leakage IR@VRWM (μA)	Junction Capacitance Cj (pF)
			MIN	MAX					Typ.
AU1261D1F-T	EUE	12	13.3	14.7	1	24.0	190	1	490

Typical Performance Characteristics ($T_A=25^\circ\text{C}$ unless otherwise Specified)

Figure 1: Pulse Derating Curve

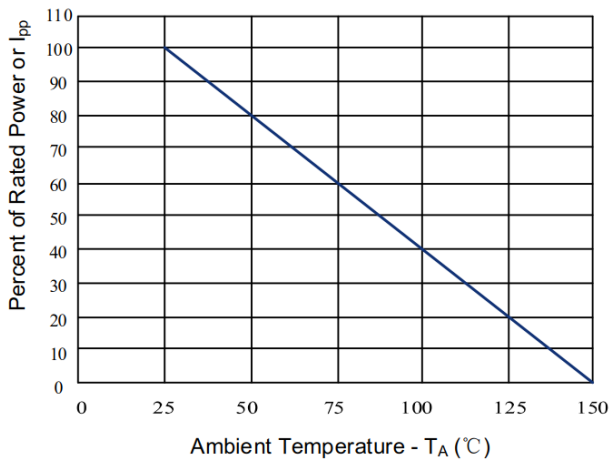


Figure 2: 8/20 μs Pulse Waveform

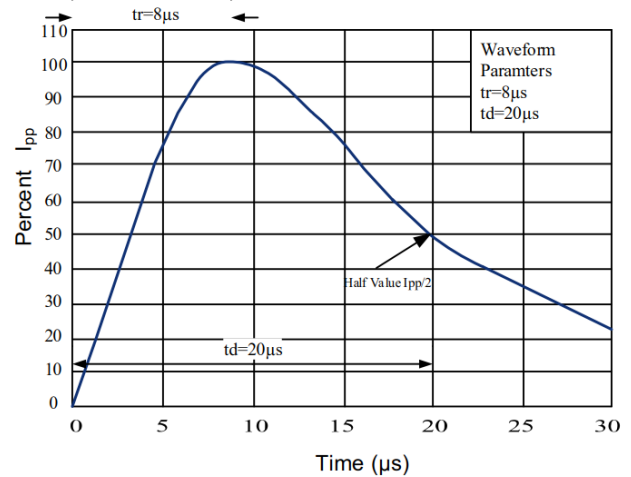


Figure 3: Peak Pulse Power Rating Curve

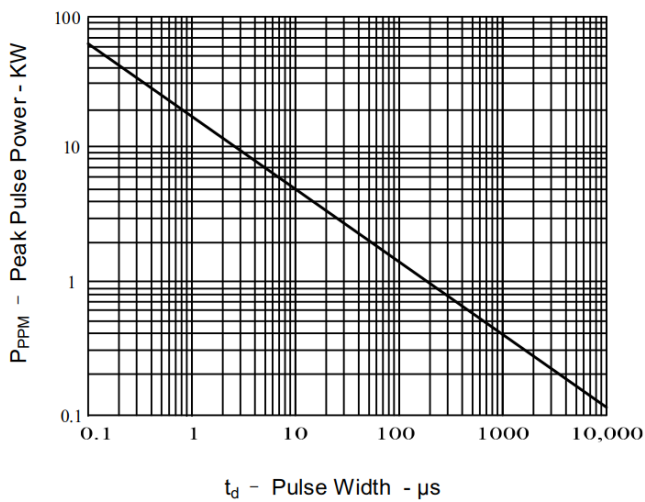


Figure 4: Steady State Power Dissipation Derating Curve

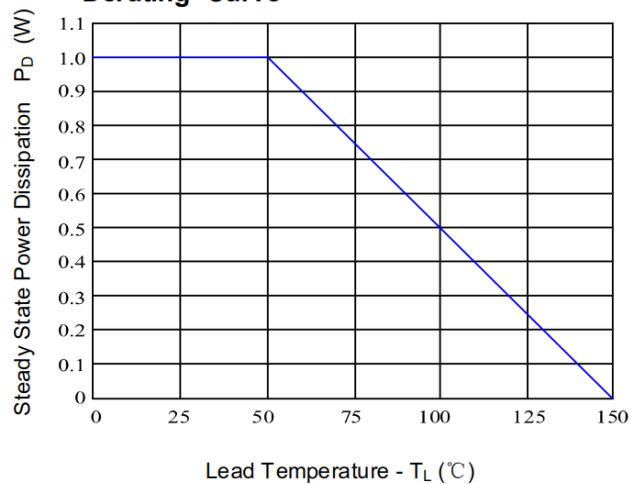
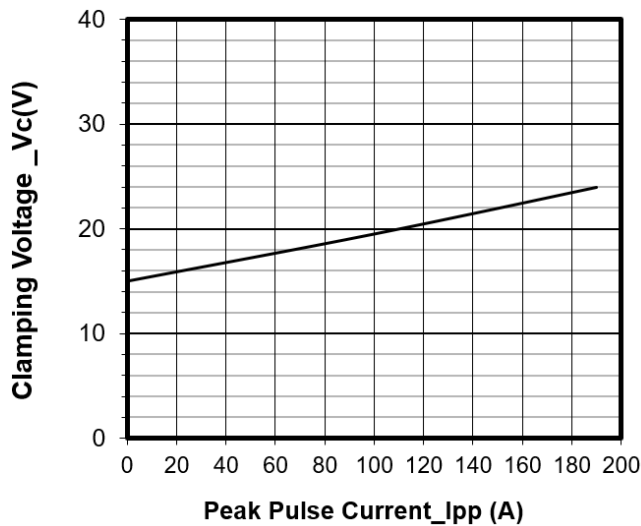
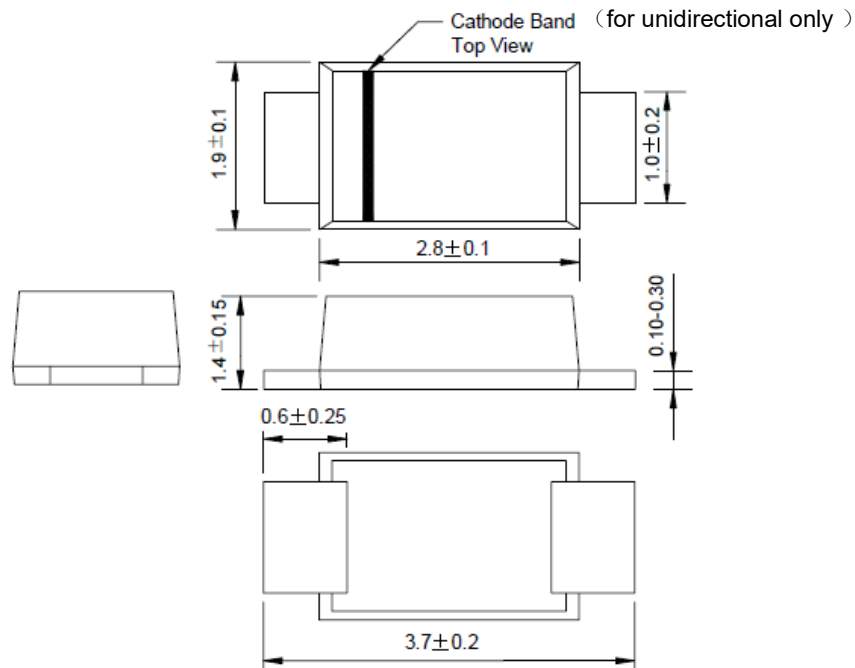


Figure 5: Clamping Voltage vs. Peak Pulse Current

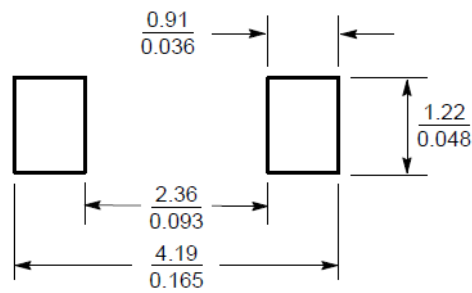


SOD-123FL Package Outline Drawing



Dimensions in millimeters

Suggested Land Pattern



SCALE 10:1 ($\frac{\text{mm}}{\text{inches}}$)

Contact Information

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