Description

The AUXXX1D1F-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.

MechaniD1FI 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

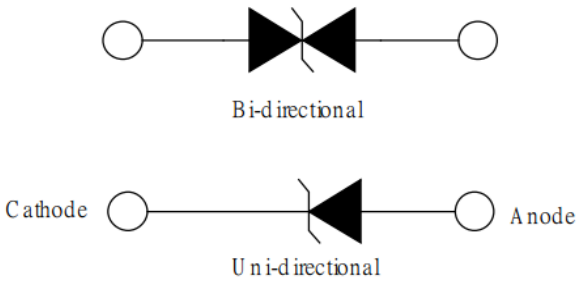
Applications

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

Marking Information

EXX = Marking Code
Bar denotes cathode for unidirectional only

Device Schematic



Circuit Schematic

Ordering Information

Part Number	Packaging	Reel Size
AUXXX1D1F-T	3000/Tape & Reel	7 inch

Electrical Characteristics (T_A=25°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.
AU0751D1F-T	EHM	7.0	7.7	8.6	10	16.0	220	50	1650
AU0761D1F-T	ETM	7.0	7.7	8.6	10	16.0	220	50	870
AU1251D1F-T	EIE	12	13.3	14.7	1	24.0	190	1	1020
AU1261D1F-T	EUE	12	13.3	14.7	1	24.0	190	1	490
AU1551D1F-T	EIM	15	16.7	18.5	1	26.0	180	1	1000
AU1561D1F-T	EUM	15	16.7	18.5	1	26.0	180	1	400
AU1851D1F-T	EIT	18	20.0	22.1	1	30.0	160	1	650
AU1861D1F-T	EUT	18	20.0	22.1	1	30.0	160	1	320
AU2051D1F-T	EIV	20	22.20	24.50	1	35.0	150	1	310
AU2061D1F-T	EUV	20	22.20	24.50	1	35.0	150	1	310
AU2451D1F-T	EIZ	24	26.70	29.50	1	40.0	170	1	300
AU2461D1F-T	EUZ	24	26.70	29.50	1	40.0	170	1	300
AU2651D1F-T	EJE	26	28.90	31.90	1	44.0	130	1	290
AU2661D1F-T	EVE	26	28.90	31.90	1	44.0	130	1	290
AU2851D1F-T	EJG	28	31.10	34.40	1	48.0	120	1	280
AU2861D1F-T	EVG	28	31.10	34.40	1	48.0	120	1	280

Typical Performance Characteristics (T_A=25°C unless otherwise Specified)

Figure 1: Pulse Derating Curve

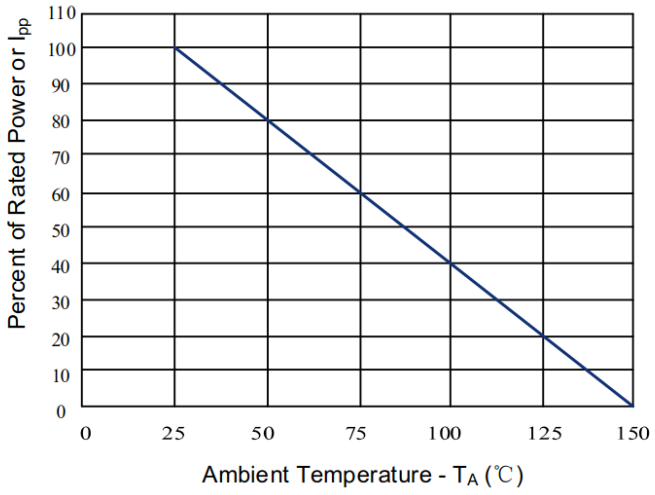


Figure 2: 8/20μs Pulse Waveform

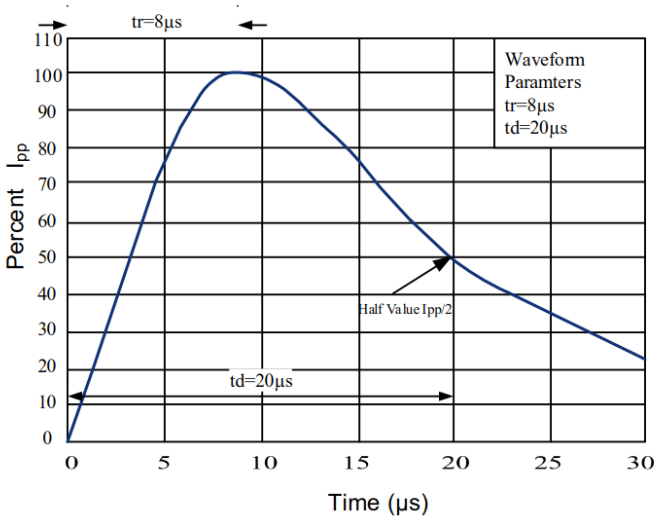


Figure 3: Peak Pulse Power Rating Curve

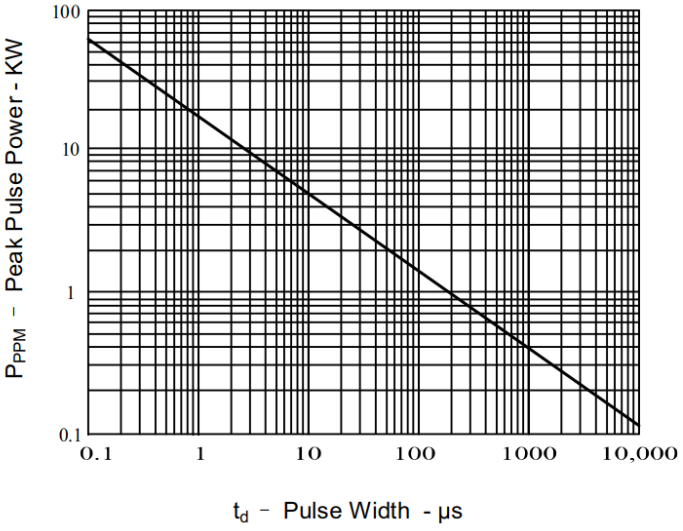
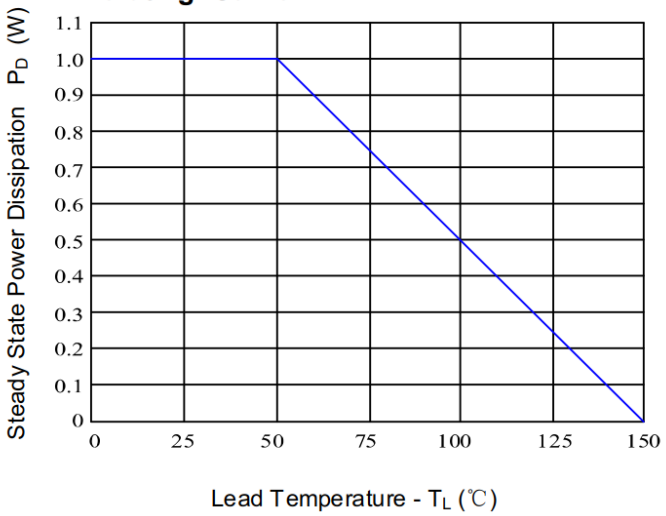
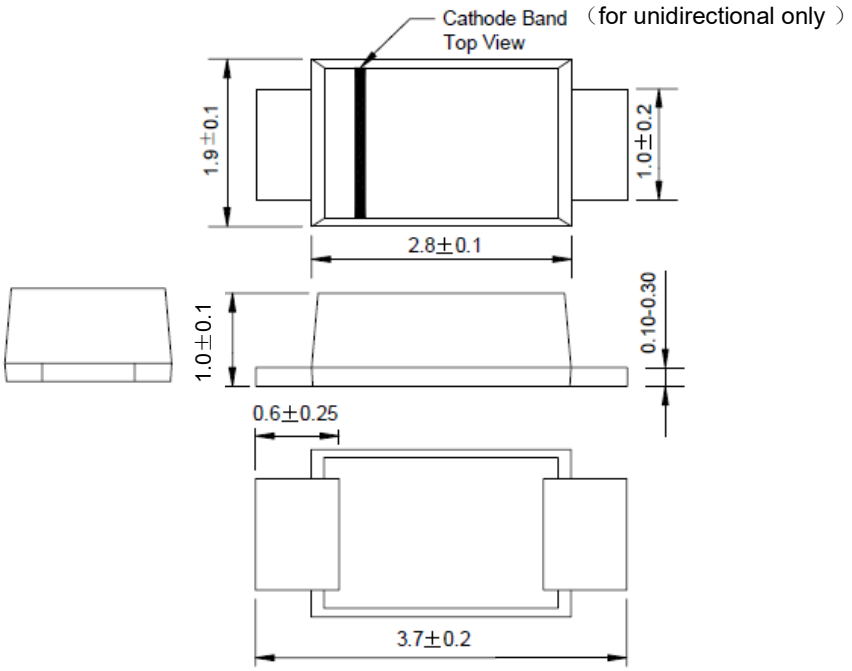


Figure 4: Steady State Power Dissipation Derating Curve

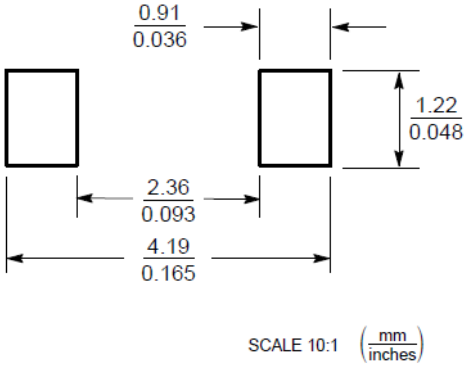


SOD-123FL Package Outline Drawing



Dimensions in millimeters

Suggested Land Pattern



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