

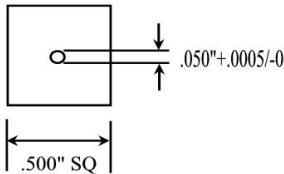
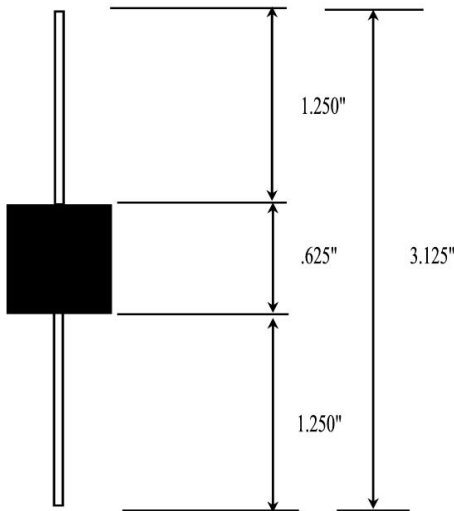
SUSSEX
SEMICONDUCTOR, INC.

12251 TOWNE LAKE DRIVE, FORT MYERS, FLORIDA, 33913 • TEL: (941) 768-6800 • FAX: (941) 768-6868

AX-4

Preliminary Data

The new AX-4 series of high current transient suppressors have been specifically designed for use in **A.C. Line Protection**.



Features:

- Glass Passivated Junction
- Bidirectional
- Multijunction
- Low Clamping Voltage
- Sharp Breakdown Voltage
- Low Slope Resistance
- Three Available devices with V_{BR} 65V, 200V and 220V

Maximum Ratings:

- Current Rating (I_{pp}) 6kA (See Note 1)
- Maximum Junction Temperature is 150°C
- Storage Temperature -55°C to 175°C
- Max Clamping of 330V_{CL}
- Rated I_{pp} measured with 8 x 20 μ sec pulse
- Standoff measured V_{SO} at 80% V_{BR}

Mechanical Characteristics:

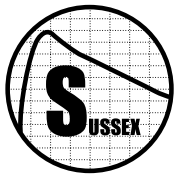
- Molded plastic case
- Axial lead terminals (solderable per MIL-STD-202 Method 208)
- Device code and logo marked on every device

**For Additional Information See Charts and Graphs
Or Call Factory at (941) 768-6800**

TABLE 17A - AX-4 SERIES TRANSIENT SUPPRESSOR ELECTRICAL SPECIFICATIONS

SUSSEX PART NUMBERS	STANDOFF VOLTAGE (V_{SO}) Volts	MAX. REVERSE LEAKAGE (I_R)@ V_{SO} μ A	REVERSE BREAKDOWN VOLTAGE (V_{BR}) @ I_T		TEST CURRENT (I_T) mA	MAX. CLAMPING VOLTAGE (V_{CL}) @ PEAK PULSE CURRENT (I_{PP}) (NOTE 1)		MAX. TEMP. COEFFICIENT OF V_{BR} (%/°C)	MAX. Capacitance 0 Bias 10k Hz (nF)
			MIN. Volts	MAX. Volts		V_{CL} Volts	I_{PP} Amps		
AX4-65	58	20	64	70	10	115	6000	0.100	6.5
AX4-200	170	20	180	220	10	300	6000	0.100	2.5
AX4-220	190	20	200	245	10	330	6000	0.100	2.2

Note 1: Pulse repetition rate is greater than 2 minutes between pulses.



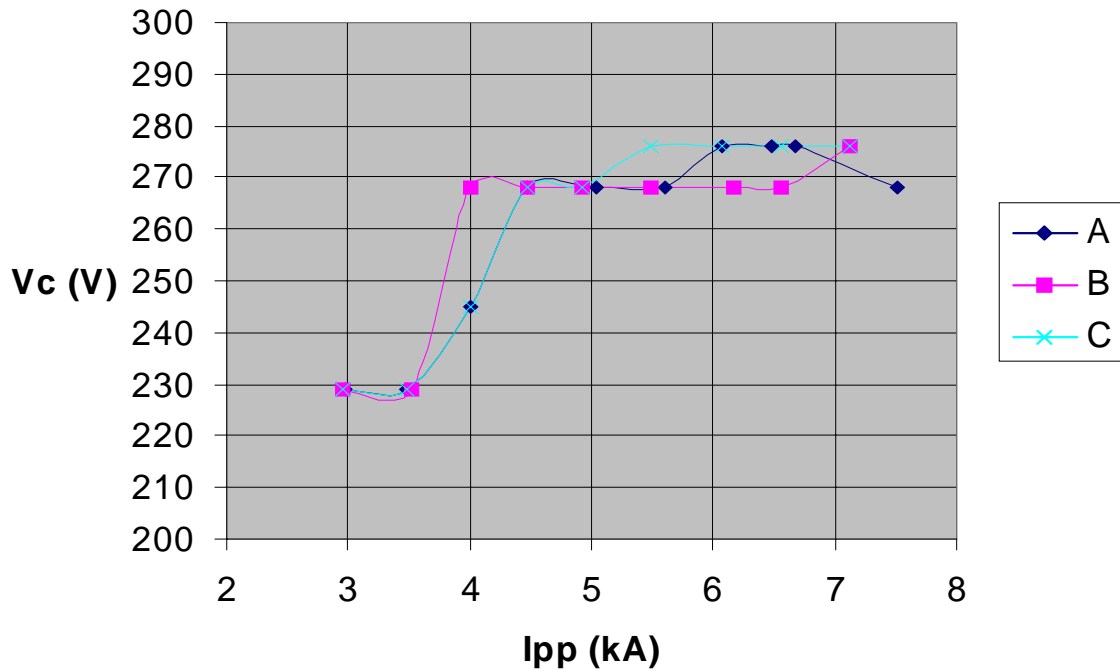
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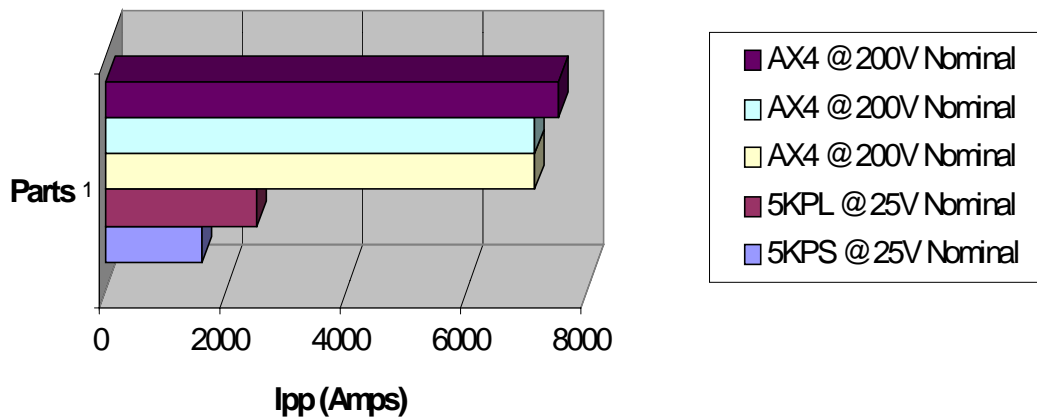
AX-4

Preliminary Data

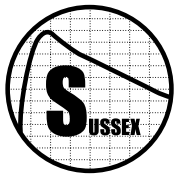
Typical Sussex AX-4



Typical AX-4/5KPL/5KPS



Some Test Data Furnished by William R. Goldbach, Innovative Technology, Inc.



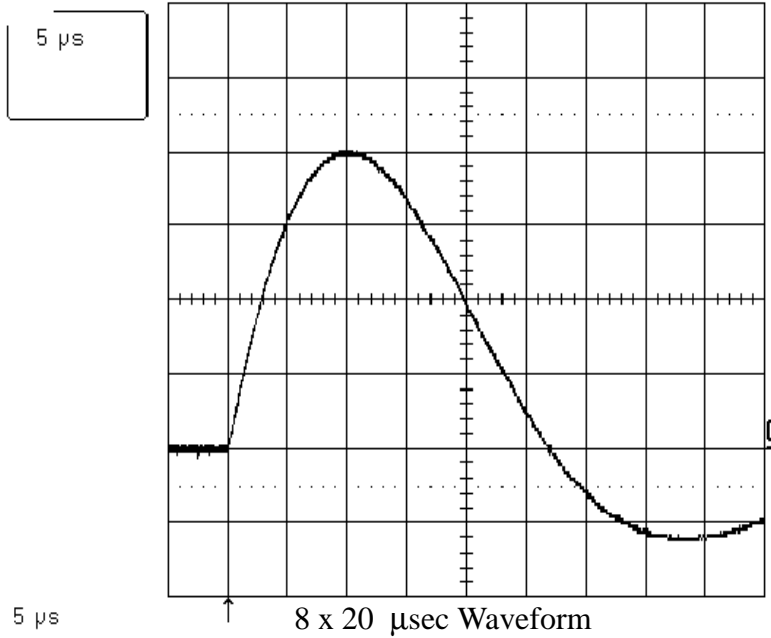
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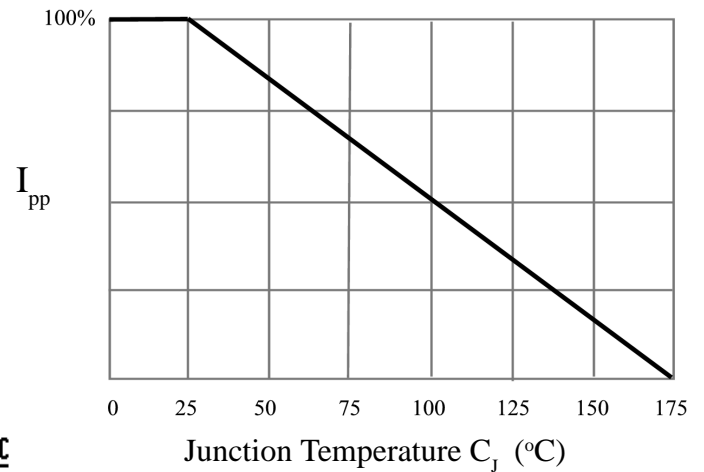
AX-4

Preliminary Data

Pulse Waveform



Pulse Derating Curve



Disclaimer:

Sussex Semiconductor, Inc believes that the information contained in this publication is an accurate description of the typical characteristics. However, it is your responsibility to thoroughly test the product in your specific application to determine its performance, efficacy and safety.