

### Description

The ASM8SXXA Series are transient voltage suppressor de-signed to protect sensitive electronic equipment from damage induced by lightning and voltage transients.

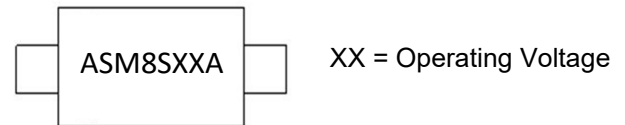
### Features

- 6600W peak pulse power capability with a 10/1000  $\mu$ s waveform, repetitive rate (duty cycle):0.01 %
- Fast Response Time
- Unidirectional Configuration.
- Lead and body according with RoHS standard
- Excellent clamping capability
- Glass passivated junction

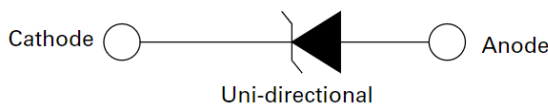
### Mechanical Characteristics

- Package: SOD-BLOCK Molded plastic
- Polarity: Heatsink is Anode
- Terminal :Solder plated
- Marking Information: See Below

### Marking Information



### Device Schematic



Circuit and Pin Schematic

### Ordering Information

Part Number	Packaging	Reel Size
ASM8SXXA	750/Tape & Reel	13 inch

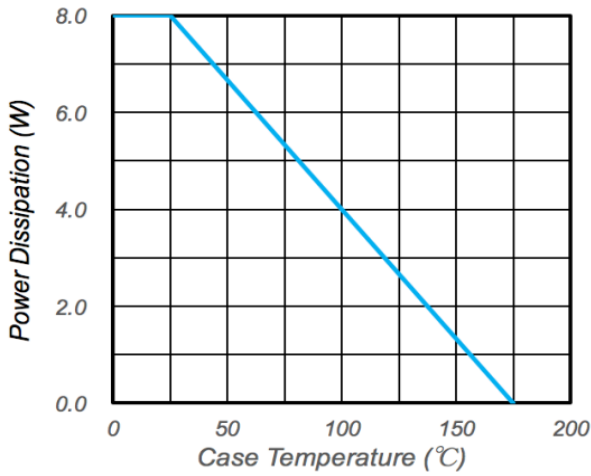
### Absolute Maximum Ratings ( $T_A=25^\circ\text{C}$ unless otherwise specified)

Parameter	Symbol	Value	Unit
Peak Pulse Power (10/1000 $\mu$ s)	Ppk	6600	W
Peak Pulse Current (10/1000 $\mu$ s)	I <sub>PP</sub>	See next table	A
Operating Temperature Range	T <sub>J</sub>	-55 to +175	$^\circ\text{C}$
Storage Temperature Range	T <sub>stg</sub>	-55 to +175	$^\circ\text{C}$

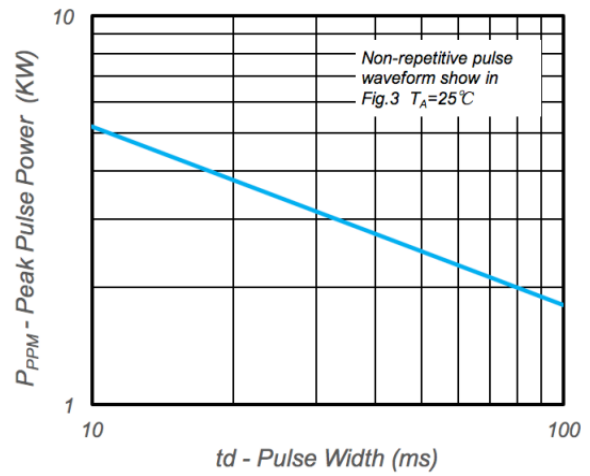
**Electrical Characteristics ( $T_A=25^{\circ}\text{C}$  unless otherwise specified)**

Part Number	Reverse Stand off Voltage VR (Volts)	Breakdown Voltage VBR (Volts) @ IT		Test Current IT (mA)	Maximum Clamping Voltage VC @ Ipp (V)	Maximum Peak Pulse Current Ipp (A)	Maximum Reverse Leakage IR @ VR ( $\mu\text{A}$ )	Maximum Reverse Leakage IR @ VR( $175^{\circ}\text{C}$ ) ( $\mu\text{A}$ )
		MIN	MAX					
ASM8S10A	10.0	11.1	12.3	5	17	388	15	250
ASM8S11A	11.0	12.2	13.6	5	18.2	363	10	150
ASM8S12A	12.0	13.3	14.7	5	19.9	332	10	150
ASM8S13A	13.0	14.4	15.9	5	21.5	307	10	150
ASM8S14A	14.0	15.6	17.2	5	23.2	284	10	150
ASM8S15A	15.0	16.7	18.6	5	24.4	270	10	150
ASM8S16A	16.0	17.8	20.5	5	26	254	10	150
ASM8S17A	17.0	18.9	20.9	5	27.6	239	10	150
ASM8S18A	18.0	20.0	22.1	5	29.2	226	10	150
ASM8S20A	20.0	22.0	24.5	5	32.4	204	10	150
ASM8S22A	22.0	24.4	26.9	5	35.5	186	10	150
ASM8S24A	24.0	26.7	29.5	5	38.9	170	10	150
ASM8S26A	26.0	28.9	31.9	5	42.1	157	10	150
ASM8S28A	28.0	31.1	34.4	5	45.4	145	10	150
ASM8S30A	30.0	33.3	36.8	5	48.4	136	10	150
ASM8S33A	33.0	36.7	40.6	5	53.3	124	10	150
ASM8S36A	36.0	40.0	44.2	5	58.1	114	10	150
ASM8S40A	40.0	44.4	49.1	5	64.5	102	10	150
ASM8S43A	43.0	47.8	52.8	5	69.4	95.1	10	150

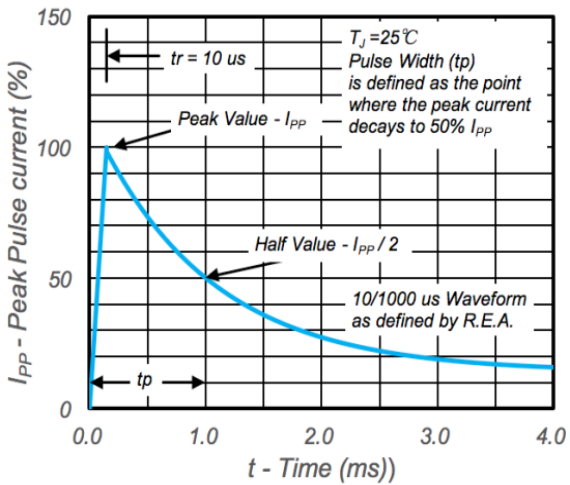
**Typical Performance Characteristics ( $T_A=25^\circ\text{C}$  unless otherwise Specified)**



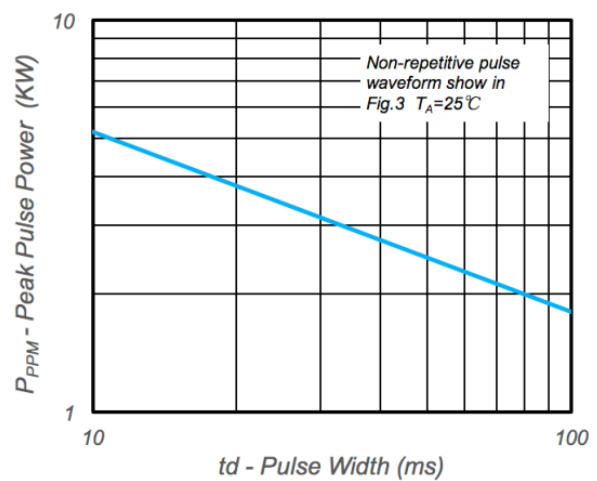
**Pulse Derating Curve**



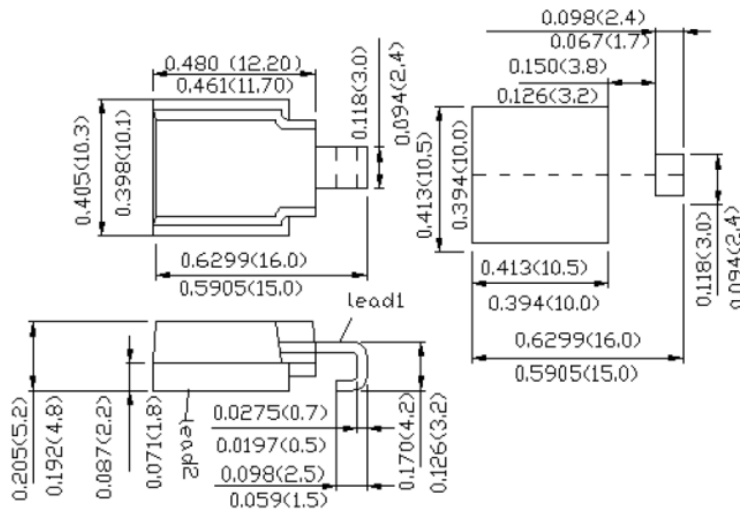
**Typical Junction Capacitance**



**Pulse Waveform**



**Peak Pulse Power Rating**

**Package Outline Dimensions and Pad Layouts**


Dimensions in millimeters

**Contact Information**

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