



## 6600W Passive Auto Electric Components SM8S30CAG TVS Bidirectional

Our Product Introduction

### Basic Information

- Place of Origin: Shenzhen, Guangdong, China
- Brand Name: SOCAY
- Certification: UL, REACH, RoHS, ISO
- Model Number: SM8S30CAG
- Minimum Order Quantity: 500PCS
- Price: Negotiable
- Packaging Details: bulk
- Delivery Time: 1-2weeks



### Product Specification

- Key Words: Auto Grade Components
- Footprint: DO-218AB
- Function: Protection Circuit Board
- Pattern: Passive Component
- Vr: 30V
- Ir@Vr @25 : 5μA
- Ir@Vr @175 : 250μA
- Vbr@It (Min.): 33.3V
- Vbr@It (Max.): 36.8V
- It: 5mA
- Vc@Ipp: 48.4V
- Ipp: 136A
- Highlight: **6600W Auto Electric Components,  
Passive Auto Electric Components,  
6600W TVS Diode Bidirectional**

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## Product Description

### 6600W TVS Bi-Directional TVS SM8S30CAG Transient Voltage Suppressors

DATASHEET: [SM8SXXG Series\\_v2309.1.pdf](#)



#### Description:

The SM8S series is designed specifically to protect sensitive electronic equipment from voltage transients induced by lightning and other transient voltage events

#### Working Standard

. Connected in parallel to the circuit, when the device is inactive, the resistance value is high and can be considered as an open circuit with little or no effect on the circuit. When there is an abnormal pulse, the resistance value drops instantly and the current is released momentarily. When the abnormal high voltage disappears, it returns to its high resistance state and the circuit works normally.

Part Number		Working Peak Reverse Voltage $V_{RWM}$ (V)	Breakdown Voltage $V_{BR}$ (V)		Test Current $I_T$ (mA)	Maximum Reverse Leakage $I_R$ @ $V_{RWM}$ ( $\mu A$ )	Maximum $I_R$ @ $V_{RWM}$ $T_J=175$ ( $\mu A$ )	Maximum Reverse Surge Current $I_{PP}$ (A)	Maximum Clamping Voltage $V_C$ @ $I_{PP}$ (V)
Uni	Bi		Min.	Max.					
SM8S30AG	SM8S30CAG	30.0	33.3	36.8	5.0	10	150	136	48.4
SM8S33AG	SM8S33CAG	33.0	36.7	40.6	5.0	10	150	124	53.3
SM8S36AG	SM8S36CAG	36.0	40.0	44.2	5.0	10	150	114	58.1
SM8S40AG	SM8S40CAG	40.0	44.4	49.1	5.0	10	150	102	64.5
SM8S43AG	SM8S43CAG	43.0	47.8	52.8	5.0	10	150	95.1	69.4
SM8S45AG	SM8S45CAG	45.0	50.0	55.3	5.0	10	150	90.8	72.7
SM8S48AG	SM8S48CAG	48.0	53.3	58.9	5.0	10	150	85.3	77.4
SM8S51AG	SM8S51CAG	51.0	56.7	62.7	5.0	10	150	80.1	82.4

SM8S54 AG	SM8S54C AG	54.0	60.0	66.3	5.0	10	150	75.8	87.1
SM8S58 AG	SM8S58C AG	58.0	64.4	71.2	5.0	10	150	70.5	93.6
SM8S60 AG	SM8S60C AG	60.0	66.7	73.7	5.0	10	150	68.2	96.8
SM8S64 AG	SM8S64C AG	64.0	71.1	78.6	5.0	10	150	64.1	103.0
SM8S70 AG	SM8S70C AG	70.0	77.8	86.0	5.0	10	150	58.4	113.0
SM8S75 AG	SM8S75C AG	75.0	83.3	92.1	5.0	10	150	54.5	121.0
SM8S78 AG	SM8S78C AG	78.0	86.7	95.8	5.0	10	150	52.4	126.0
SM8S85 AG	SM8S85C AG	85.0	94.4	104.0	5.0	10	150	48.2	137.0

**Notes:**

1. Surge current waveform is defined at 10/1000 $\mu$ S waveform.

2. For all types maximum  $V_F = 1.8$  V at  $I_F = 100$  A measured on 8.3 ms single half sine-wave or equivalent square wave, duty cycle = 4 pulses per minute maximum.

SOCAY SM8S Transient suppression diode application:

Traffic recorder

ADAS Advanced Driver Assistance System

OBD vehicle diagnostic system

DMS Driver condition monitoring Department

Car LED

Cigarette lighter

Car audio



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