



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