

# MCC's 3600W Auto-Grade TVS: Powerful Transient Voltage Protection

## 3600W AUTO-GRADE TVS



### Features

- AEC-Q101 Qualified
- High Peak Pulse Power Dissipation:
  - 3600W (10/1000 $\mu$ s waveform)
  - 2800W (10/10000 $\mu$ s waveform)
- IEC 61000-4-2 (ESD):  $\pm$ 30kV (Air),  $\pm$ 30kV (Contact)
- Operating Junction Temperature
- Excellent Clamping Capability
- DO-218AB Package



### Benefits

Our SM5S series TVS diodes are engineered to meet the demanding requirements of automotive applications.

SM5S30CAHE3, SM5S33CAHE3, SM5S36CAHE3, and SM5S18CAHE3 offer 3600W of peak pulse power handling capability in the compact DO-218AB package.

### Applications



Automotive




Industrial



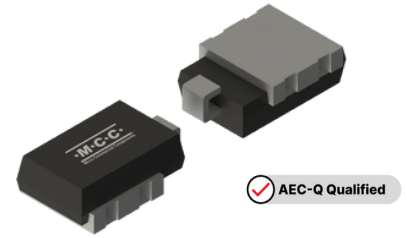
Consumer



 **AEC-Q Qualified**

## Get Performance Optimized for Load Dump in a DO-218AB SMD Package

# AEC-Q101 qualification & the ability to withstand operating junction temperatures up to 175°C



MCC Semi's MOSFETs SM5S Series: Auto-Grade 3600W TVS Diodes is AEC-Q101 qualification and operating junction temperature capability of up to 175°C ensure these TVS diodes meet rigorous auto industry standards, providing dependable performance in harsh environments.

## Product Attributes, Parametrics & Datasheets

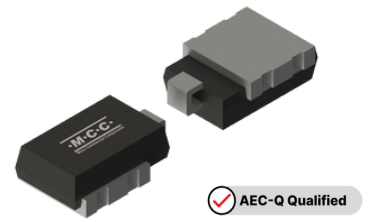
Product	Type	Package	Peak Pulse Power Dissipation P <sub>PPM</sub> (10/1000µs Waveform)	Reverse Standoff Voltage VRWM	Mounting Type	Datasheet
<a href="#"><b>SM5S30CAHE3</b></a>	TVS Diode	DO-218AB	3600W	30V	Surface-Mount (SMD)	<a href="#"><b>Info</b></a>
<a href="#"><b>SM5S33CAHE3</b></a>	TVS Diode	DO-218AB	3600W	33V	Surface-Mount (SMD)	<a href="#"><b>Info</b></a>
<a href="#"><b>SM5S36CAHE3</b></a>	TVS Diode	DO-218AB	3600W	36V	Surface-Mount (SMD)	<a href="#"><b>Info</b></a>
<a href="#"><b>SM5S18CAHE3</b></a>	TVS Diode	DO-218AB	3600W	18V	Surface-Mount (SMD)	<a href="#"><b>Info</b></a>

**CONTACT MCC TO REQUEST A SAMPLE**

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# These TVS diodes offer a working voltage range of 10V to 36V



MCC Semi's TVS diodes offer a working voltage range of 10V to 36V, allowing for versatile use across different systems by accommodating a variety of essential electronic components and configurations.

## Applications:



### Automotive

- Load dump suppression
- Transient voltage suppression in automotive control systems
- Protection of sensitive electronics in electric and hybrid vehicles

### Industrial

- Voltage protection in industrial automation equipment
- Surge protection for control circuits in machinery

### Consumer

- ESD protection for vehicle infotainment systems
- Voltage spike protection in battery management systems

### Telecommunications

- Protection of essential communication devices against voltage transients
- Surge protection for telematics and GPS systems in vehicles

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