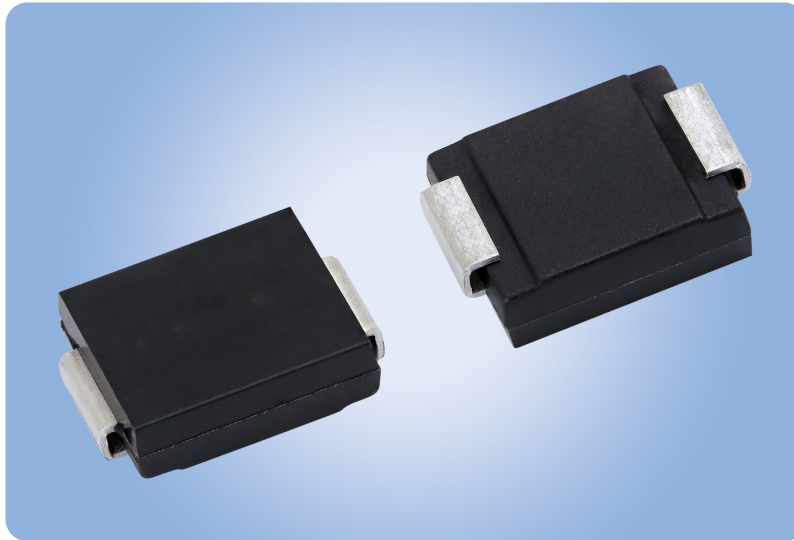




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**DIODES****TRANSZORB® Transient Voltage Suppressors**

## TRANSZORB® Bidirectional TVS Offer High Surge Capability to 3 kW, Leakage Current Down to 1 $\mu$ A in SMC (DO-214AB) Package

**KEY BENEFITS**

- High surge capability of 3 kW at 10/1000  $\mu$ s
  - Meets the specifications of ISO 16750-2 pulse b
- Low leakage current down to 1  $\mu$ A from 22 V to 120 V
- Maximum clamping voltage from 17.0 V to 193 V at 10/1000  $\mu$ s
- High temperature operation to +175 °C
- Extremely stable breakdown voltage from 11.1 V to 133 V across their entire operating temperature range
- 33 TVS part numbers with stand-off voltages from 10 V to 120 V
- Very fast response times
- Low incremental surge resistance
- Offered in SMC (DO-214AB) package
- AEC-Q101 qualified
- RoHS-compliant and halogen-free
- Moisture sensitivity level (MSL) of 1 in accordance with J-STD-020, LF maximum peak of 260 °C

**APPLICATIONS**

- Automotive load dump protection and signal line protection in industrial and telecom systems

**RESOURCES**

- Datasheet: SMC3K10CAHM3\_A thru SMC3K120CAHM3\_A - [www.vishay.com/ppg?98241](http://www.vishay.com/ppg?98241)
- For technical questions contact [DiodesAmericas@vishay.com](mailto:DiodesAmericas@vishay.com), [DiodesEurope@vishay.com](mailto:DiodesEurope@vishay.com), [DiodesAsia@vishay.com](mailto:DiodesAsia@vishay.com)
- Material categorization: for definitions of compliance, please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



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TRANSZORB® Transient Voltage Suppressors

TRANSZORB® Bidirectional TVS Offer High Surge Capability to 3 kW, Leakage Current Down to 1 µA in SMC (DO-214AB) Package

The surface-mount TRANSZORB® bidirectional transient voltage suppressors (TVS) offer high surge capability to 3 kW at 10/1000 µs in the SMC (DO-214AB) package. The series provides low leakage current down to 1 µA from 22 V to 120 V over a wide operating temperature range of -55 °C to +175 °C for automotive, industrial, and telecom applications.

Suitable for high reliability applications, the devices are available in AEC-Q101 qualified versions and offer extremely stable breakdown voltage from 11.1 V to 133 V across their entire operating temperature range. Designed to protect sensitive electronic equipment against voltage transients induced by inductive load switching and lightning, the devices are intended for automotive load dump protection and signal line protection in industrial and telecom systems.

Table with 7 columns: DEVICE TYPE, BREAKDOWN VOLTAGE (V) MIN./MAX., STAND-OFF VOLTAGE (V), MAXIMUM REVERSE LEAKAGE AT V\_WM, MAXIMUM CLAMPING VOLTAGE V\_C (V) AT I\_PPM (10/1000 µs) (V) and (A). Rows list various SMC3K series devices from SMC3K10CAHM3\_A to SMC3K120CAHM3\_A.