

Surface-mount transient voltage suppressors feature high surge capability to 5 kW at 10/1000 μ s



Vishay

Intertechnology introduced a new series of surface-mount PAR transient voltage suppressors (TVS) in the SMC DO-214AB package. For automotive and telecom applications, [5KASMC series](#) [1] devices feature high surge capability to 5 kW at 10/1000 μ s and an operating junction temperature range from - 65 °C to + 185 °C.

The TVS devices released today offer 233 % higher surge capability than conventional 1.5 kW devices in SMC packages, increasing design flexibility and compatibility. In addition, the TVS' high operating junction temperatures and new low-stress, symmetric lead frame designs provide the high reliability required for automotive applications.

Designed to protect sensitive electronic equipment against voltage transients induced by system inductive load switching and lightning, the AEC-Q101-qualified devices are suitable for secondary automotive load dump protection and telecom

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Published on Electronic Component News (<http://www.ecnmag.com>)

infrastructure DC power bus lightning surge protection.

The 5KASMC series consists of 16 TVS devices with stand-off voltages from 10 V to 43 V. The devices offer a peak pulse power current from 294.1 A to 72 A, maximum clamping voltage from 17 V to 69.4 V, very fast response times, and low incremental surge resistance.

The 5KASMC series meets the Moisture Sensitivity Level MSL1 and can be lead (Pb)-free-soldered with a maximum peak temperature of 260 °C (per JEDEC standard J-STD-020). The devices are compliant with ISO-16750-2 Pulse 5b ($R_i = 2.5 \Omega$ to 4Ω) and JASO-A1 ($R_i = 5.0 \Omega$). TVS devices with a stand-off voltage of 36 V and below are also compliant with IEC61000-4-5 6 kV ($Z_s = 12 \Omega$) and 4 kV ($Z_s = 2 \Omega$) lightning surge tests.

The RoHS-compliant TVS devices are halogen-free according to the IEC 61249-2-21 definition and comply with WEEE 2011/65/EU.

Samples and production quantities of the new 5KASMC series are available now, with lead times of eight weeks for large orders. Pricing for U.S. delivery is \$2.55 per piece.

www.vishay.com [2]

Source URL (retrieved on 01/27/2015 - 4:08pm):

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Links:

[1] <http://www.vishay.com/doc?89432>

[2] <http://www.vishay.com>