

In-vehicle network protection diodes for CAN

Nexperia, the former Standard Products division of NXP, announced in-vehicle network protection diodes. Compared to former products, they offer higher surge current, greater ESD robustness, and an improvement in ESD clamping performance.

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The products are optimized for CAN transceivers (Photo: Nexperia)

The [AEC-Q101-qualified](#) PESDxIVN series of surface mount devices is optimized for the latest generation of CAN transceivers. The added parts are drop-in replacement for legacy devices, available in familiar SOT23, SOD323, and SOT323 packages. However the new series delivers higher performance, said the company. For example, PESD2IVN24-T delivers a 30-kV ESD (electrostatic discharge) robustness (previously 23 kV on the legacy PESD1CAN), an improved surge current of 3,5 A and better clamping of 42 V at 3,5 A (previously 70 V at 3 A). Other parameters remain constant or slightly better, said the company. The PESD1IVN27-A offers the same improvement in ESD robustness with a lower (=better) clamping voltage compared to the legacy PESD1LIN, they added.

Nexperia's Marketing Manager of Automotive André Dressler commented: "In modern vehicles there is an increasing amount of data exchange and the electronic content is growing in functionality and complexity, therefore effective ESD protection solutions are imperative. Nexperia has brought on-line a massive capacity increase for ESD diodes in order to guarantee a secure chain, and provide customers with peace of mind that they are protecting the electronics in their vehicles with high-performance, rugged and efficient devices."

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