

## **Automotive Bi-directional ESD Protection Diode**

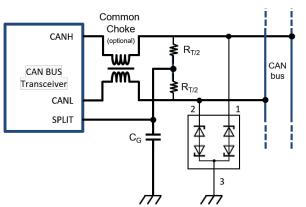
The TESDA24VB30P2CX is Bidirectional ESD rated clamping cell to protect power interfaces, control line, or low speed data line in an electronic system. The capacitance Cd has to be smaller than 100 pF to maintain signal integrity at the maximum data rate of 20 kbit/s. To minimize the total impact of the diode on the system Cd should be smaller than 30 pF. It has been specifically designed to protect sensitive electronic components that are connected to power and control lines from over-voltage damage by Electrostatic Discharging (ESD), and Lightning.

## **Key Features**

- AEC-Q101 qualified
- ESD protect for 2 line with bidirectional.
- Provide ESD protection for each channel to IEC61000-4-2 (ESD): ±30kV (air), ±30kV(contact) IEC61000-4-5 (Lightning): 5A (8/20μs)
- Suitable for 24V and below operating voltage
- Protect I/O line or power line.

## Package and Circuit diagram





Typical application: ESD protection of two automotive CAN bus lines

## **Product Portfolio**

Part Number	V <sub>wm</sub>	C <sub>J</sub> max	ESD robustness (IEC61000-4-2)	IPPM (at tp = 8/20μs)
TESDA24VB30P2CX	24V	30pF	30KV	5A

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