

Automotive Bi-directional ESD Protection Diode

The TESDA24VB28P2CX is Bidirectional ESD rated clamping cell to protect power interfaces, control line, or low speed data line in an electronic system. The capacitance Cd must be less 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 is less than 30 pF. This device 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 Indirect Lightning strikes which allow it to meet the CAN bus specifications.



Official Website



X

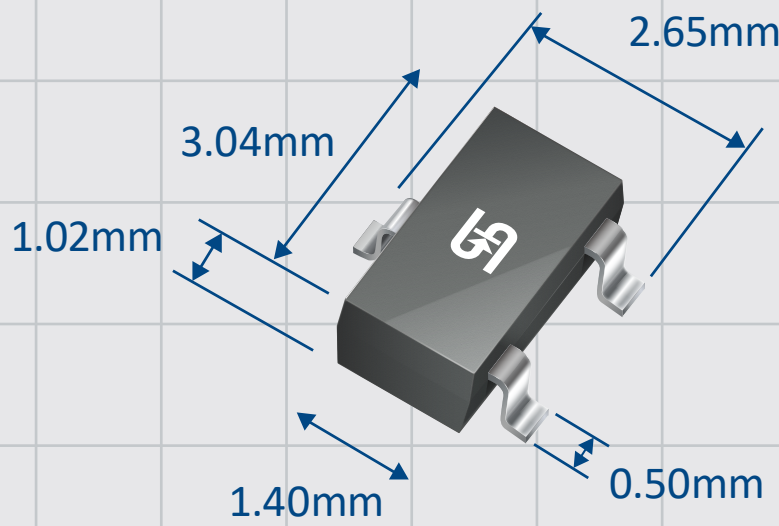


LinkedIn

For more information: marketing@ts.com.tw

© 2024 TAIWAN SEMICONDUCTOR, CO., LTD. ALL RIGHTS RESERVED.

PACKAGE

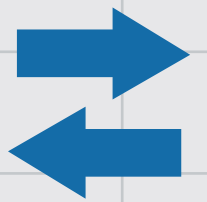


SOT-23

FEATURES



AUTOMOTIVE QUALIFIED
AEC-Q101



ESD PROTECT
FOR 2 LINE WITH
BIDIRECTIONAL



24V AND BELOW
OPERATING VOLTAGE

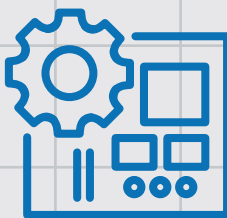


PROTECT I/O LINE
OR POWER LINE

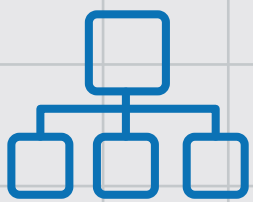
APPLICATIONS



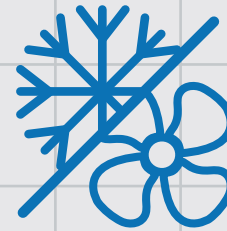
IN-VEHICLE
NETWORK LINES



INDUSTRIAL
CONTROL
SYSTEMS



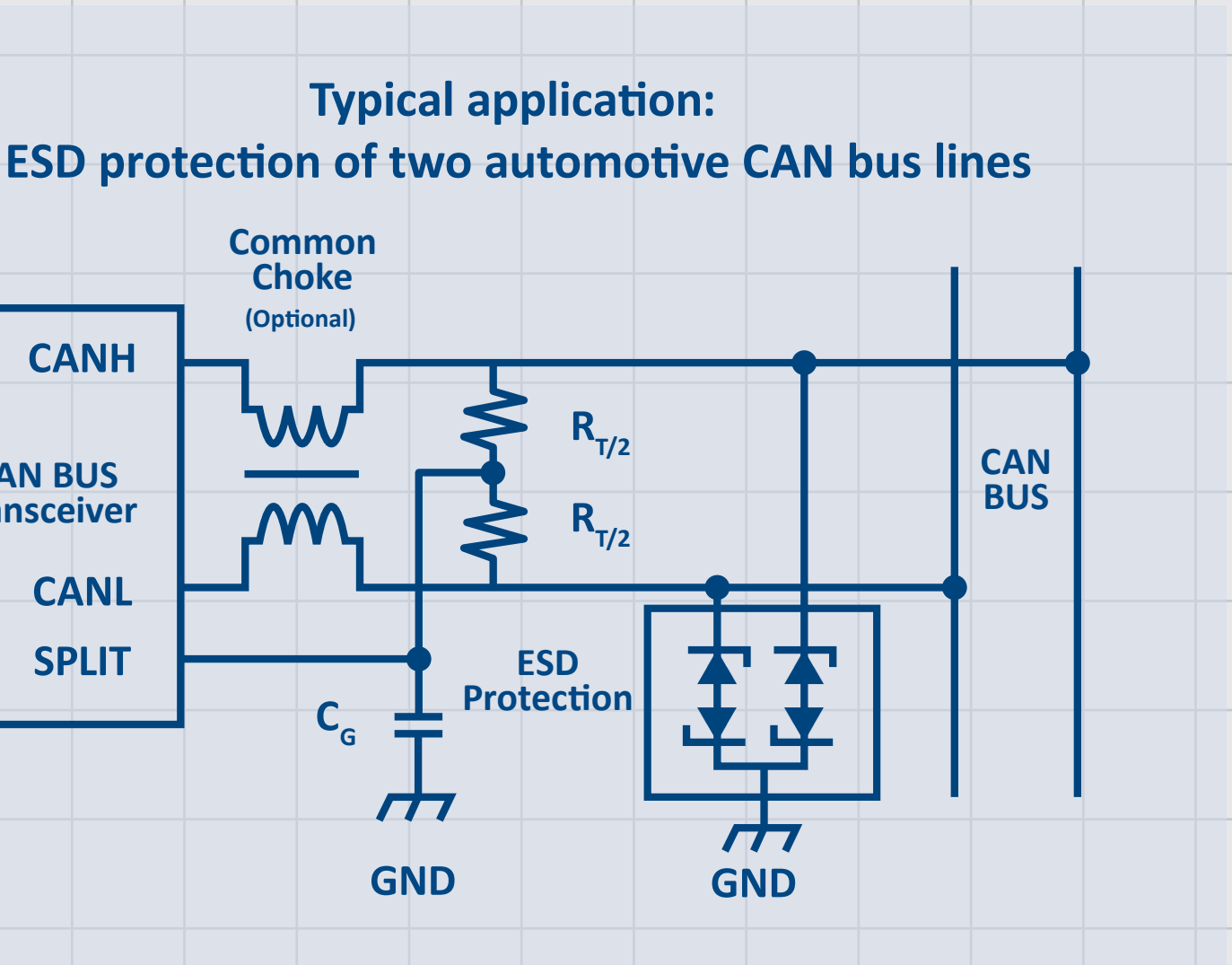
CAN BUS



HVAC SYSTEMS

SPECIFICATION

Part number	V _{WM}	C _j max	ESD robustness (IEC61000-4-2)	IPPM (at tp= 8/20μs)
TESDA24VB28P2CX	24V	28pF	30KV	5A



TAIWAN
SEMICONDUCTOR

www.taiwansemi.com