

CAN FD TRANSCEIVER

Manufacturers	Microchip Technology, Inc
Package/Case	SOIC-8
Product Type	Integrated Circuits (ICs)
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for MCP2544FD-E/SN or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The MCP2544FD CAN transceiver is designed for high-speed CAN FD applications up to 8Mbps communication speed. The maximum propagation delay was improved to support longer bus length. The device meets the automotive requirements for CAN FD bit rates exceeding 2 Mbps, low quiescent current, electromagnetic compatibility (EMC) and electrostatic discharge (ESD).

For 12V applications please consider the ATA6560

For product comparison, please consider: MCP2542FD

Features

Supports both Classic CAN or CAN Flexible Data Rate applications

Optimized for CAN FD (Flexible Data rate) at 2, 5 and 8 Mbps Operation

Meets the latest ISO/DIS 11898-2:2015 specification

Supports Wake-up pattern

AEC-Q100 Grade 0

Very Low Standby Current (5 μ A, typical)

VIO Supply Pin to Interface Directly to CAN Controllers and Microcontrollers with 1.7V to 5.5V I/O

CAN Bus Pins are Disconnected when Device is Unpowered

An Unpowered Node or Brown-Out Event will Not Load the CAN Bus

Detection of Ground Fault:

Permanent Dominant Detection on TXD

Permanent Dominant Detection on Bus

Power-on Reset and Voltage Brown-Out Protection on VDD Pin

Protection Against Damage Due to Short-Circuit Conditions (Positive or Negative Battery Voltage)

Protection Against High-Voltage Transients in Automotive Environments

Automatic Thermal Shutdown Protection

Suitable for 12V and 24V Systems

Extremely robust meeting automotive EMC hardware requirements

Smallest package option in the industry 2x3 DFN-8L

Also available in SOIC-8L and 3x3 DFN-8L

Temperature ranges:

Extended (E): -40°C to +125°C

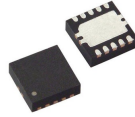
High (H): -40°C to +150°C

Related Products



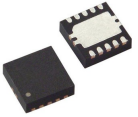
[MCP9808T-E/MS](#)

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MSOP-8



[ATSAMC21G17A-MZTVAO](#)

Microchip Technology, Inc
VQFN



[MCP16502TAC-E/S8B](#)

Microchip Technology, Inc
VQFN



[MCP16362T-E/NMX](#)

Microchip Technology, Inc
VDFN



[BM64SPKS1MC1-00M2AA](#)

Microchip Technology, Inc
SMD



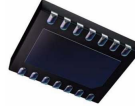
[MCP2517FDT-H/SL](#)

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[MCP2517FD-H/JHA](#)

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VDFN-14