

Fault Protected Rs 485 Transceivers With Extended Common

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LT1785 and LT1791: 60V, Fault-Tolerant RS485/RS422 ...
Sunnyvale, Calif. – Targeting harsh industrial and automotive environments where voltage spikes can wreak havoc, Maxim Integrated Products has launched an RS-422/RS-485 transceiver that offers plus/minus 80-volt fault protection for 3.3-V applications. Traditional RS-422 devices offer protection to plus/minus 72 V.

MAX13442E/MAX13443E/ ± 15kV ESD-Protecte ± 80V Fault ...

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Designers requiring longer uptime for industrial automation applications can accelerate troubleshooting and communicate across larger networks with the MAX33012E controller area network (CAN) bus analogue transceiver and the MAX33072E RS-485 half-duplex transceiver from Maxim Integrated Products.

SN65HVD178x-Q1 Fault-Protected RS-485 Transceivers With 3 ...
The RS-485 transceiver pins (driver outputs and receiver inputs) are fault protected up to $\pm 60V$ and are protected against $\pm 16.5kV$ ESD strikes without latch-up. Additionally, the extended Common-Mode Range (CMR) allows these transceivers to operate in environments with common-mode voltages up to $\pm 25V$ ($>2x$ the RS-485 requirement), making this fault protected RS-485 family one of the most robust on the market.

Transceivers cite fault protection | EE Times
Intra-building protection recommendations – RS-485 Technology Series I Resettable PPTC TRF250/600, TS250, TSV250 II* TVS Diode SM712 Resettable PPTC can increase up-time by helping to protect equipment from short circuit and power cross event. II TVS Diode Array, SM712, is specifically designed to help protect RS-485

ISL32490E | RS-485/RS-422 Fault Protected
Fault Protected, Extended Common Mode Range, RS-485/RS-422 Transceivers ISL31470E, ISL31472E, ISL31475E, ISL31478E The ISL31470E, ISL31472E, ISL31475E, ISL31478E are fault protected, extended common mode range differential transceivers that exceed the RS-485 and RS-422 standards for balanced communication. The

MAX14775E/MAX14776E RS-485/RS-422 Transceivers - Maxim ...
The MAX3430 fault-protected RS-485 transceiver features $\pm 80V$ protection from overvoltage signal faults on communication bus lines. Each device contains one driver and one receiver, and the output pins can withstand faults, with respect to ground, of up to $\pm 80V$. Even if

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the faults occur when the transceiver is active, shut down, or pow-

± 80V Fault-Protected, Fail-Safe, 1/4-Unit Load, +3.3V RS ...
SN65HVD1781 70-V Fault-Protected RS-485 Transceivers his device is designed to survive overvoltage faults such as direct shorts to power supplies, mis-wiring faults, connector failures, cable crushes, and tool mis-applications. . FEATURES. Bus-Pin Fault Protection ± 70 V Operation With to 5-V Supply Range ± 16 kV HBM Protection on Bus Pins Reduced Unit Load for to 320 Nodes Failsafe Receiver ...

± 80V Fault-Protected, Full-Duplex RS-485 Transceiver
Renesas' fault protected RS-485/RS-422 transceivers, also known as overvoltage protected transceivers (OVP), offer robust fault tolerance and high performance. Product List Documents

Fault Protected Rs 485 Transceivers

Fault-Protected RS-485/RS-422 Transceivers Maxim offers fault-protected RS-485/RS-422 transceivers that can survive DC voltages up to ± 80V on the data pins. This makes them the most robust transceivers in the industry and, therefore, ideal for automotive, truck, HVAC, and industrial applications.

SN65HVD1781 data sheet, product information and ... - TI.com

The LT1785/LT1791 are half-duplex and full-duplex differential bus transceivers for RS485 and RS422 applications which feature on-chip protection from overvoltage faults on the data transmission lines. Receiver input and driver output pins can withstand voltage faults up to ± 60V with respect to ground with no damage to the device. Faults may occur

± 18-V Fault-Tolerant RS-485/RS-422 Transceivers Cut Power ...

The MAX13442E/MAX13444E are fault-protected RS-485 and J1708 transceivers that feature ± 80V protection from signal faults on

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communication bus lines. The MAX13442E/MAX13444E feature a reduced slew-rate driver that minimizes EMI and reflections, allowing error-free transmission up to 250kbps. The MAX13443E driver can transmit up to 10Mbps.

± 80V Fault-Protected Full-Duplex RS-485 Transceiver

Fault-protected transceivers with common-mode ranges wider than specified in the RS-485 standard require double fold-back current limiting within the driver stage. Figure 4 shows the current limiting function of the ISL3245x family of fault-protected transceivers that operate over the wide common-mode range of ± 20V.

Industrial Communication and Control Protection: RS-485 ...
Analog bus pins on the XR3070-78X family of RS-485/RS-422 transceivers can withstand direct shorts up to ± 18 V and are protected from electrostatic-discharge (ESD) events exceeding IEC Level 4.

Analogue transceivers with enhanced fault detection and ...
Maxim Integrated MAX14775E/MAX14776E RS-485/RS-422 Transceivers are fault-protected RS-485/RS-422 transceivers that feature ± 65V protection. These devices are designed for overvoltage signal faults on communication bus lines, ensuring communication in harsh industrial environments.

RS-485/RS-422 Fault Protected | Renesas Electronics
SN65HVD178x-Q1 Fault-Protected RS-485 Transceivers With 3.3-V to 5-V Operation 1 1 Features 1 • Qualified for Automotive Applications • AEC-Q100 Qualified With the Following Results – Device Temperature Grade 1: – 40 ° C to 125 ° C Ambient Operating Temperature Range – Device HBM ESD Classification Level H2 – Device CDM ESG Classification Level C3B

Fault Protected, Extended Common Mode Range, RS-485/RS-422 ...
1/8-Unit Load Allows Up to 256 Transceivers on the Bus –7V to

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+12V Common-Mode Input Voltage Range +3.0V to +5.5V
Operating Supply Voltage Available in 14-Pin SO Package
MAX13448E $\pm 80V$ Fault-Protected Full-Duplex RS-485 Transceiver
_____ Maxim Integrated Products 1 Ordering Information

Fault-Protected RS-485/RS-422 Transceivers - Maxim Integrated
The MAX13448E full-duplex RS-485 transceiver features inputs and outputs fault protected up to $\pm 80V$ (with respect to ground). The device operates from a +3.0V to +5.5V supply and features true fail-safe circuitry, guaranteeing a logic-high receiver output when the receiver inputs are open or shorted.

RS-485 transceivers need protection against large over ...
THVD2450 ACTIVE $\pm 70-V$ fault-protected 3.3-V to 5-V RS-485 transceiver with IEC ESD Pin-to-pin device that offers integrated $\pm 70-V$ fault-protection, IEC ESD protection (12-kV contact discharge), IEC EFT (4-kV noise immunity), and extended comm

LT1785 Datasheet and Product Info | Analog Devices
LT1785 and LT1791: 60V, Fault-Tolerant RS485/RS422 Transceivers. by Gary Maulding Download PDF Introduction. The LT1785 and LT1791 RS485/RS422 transceivers with $\pm 60V$ fault tolerance solve a real-world problem of field failures in RS485 interface circuits. RS485 and RS422 data networks are used in a wide variety of data-communications applications.

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