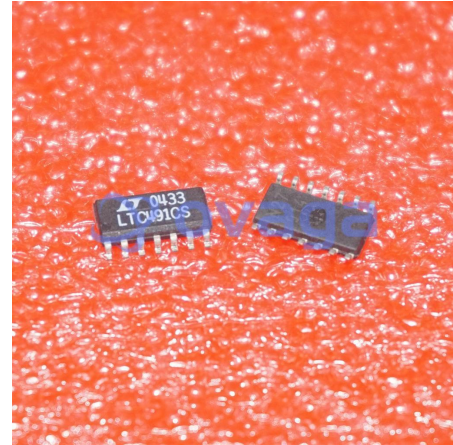


IC TXRX RS485 LOW POWER 14-SOIC

Manufacturers	Analog Devices, Inc
Package/Case	SOP14
Product Type	Interface ICs
RoHS	Pb-free Halide free
Lifecycle	



Images are for reference only

Please submit RFQ for LTC491CS#TRPBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC491 is a low power differential bus/line transceiver designed for multipoint data transmission standard RS485 applications with extended common mode range (12V to -7V). It also meets the requirements of RS422.

The CMOS design offers significant power savings over its bipolar counterpart without sacrificing ruggedness against overload or ESD damage.

The driver and receiver feature three-state outputs, with the driver outputs maintaining high impedance over the entire common mode range. Excessive power dissipation caused by bus contention or faults is prevented by a thermal shutdown circuit which forces the driver outputs into a high impedance state.

The receiver has a fail safe feature which guarantees a high output state when the inputs are left open.

Both AC and DC specifications are guaranteed from 0°C to 70°C and 4.75V to 5.25V supply voltage range.

Features

Low Power:>

Designed for RS485 or RS422 Applications

Single 5V Supply

Thermal Shutdown Protection

Power-Up/Down Glitch-Free Driver Outputs Permit Live Insertion or Removal of Package

Driver Maintains High Impedance in Three-State or with the Power Off

Combined Impedance of a Driver Output and Receiver Allows up to 32 Transceivers on the Bus

70mV Typical Input Hysteresis

28ns Typical Driver Propagation Delays with 5ns Skew for 2.5MB Operation

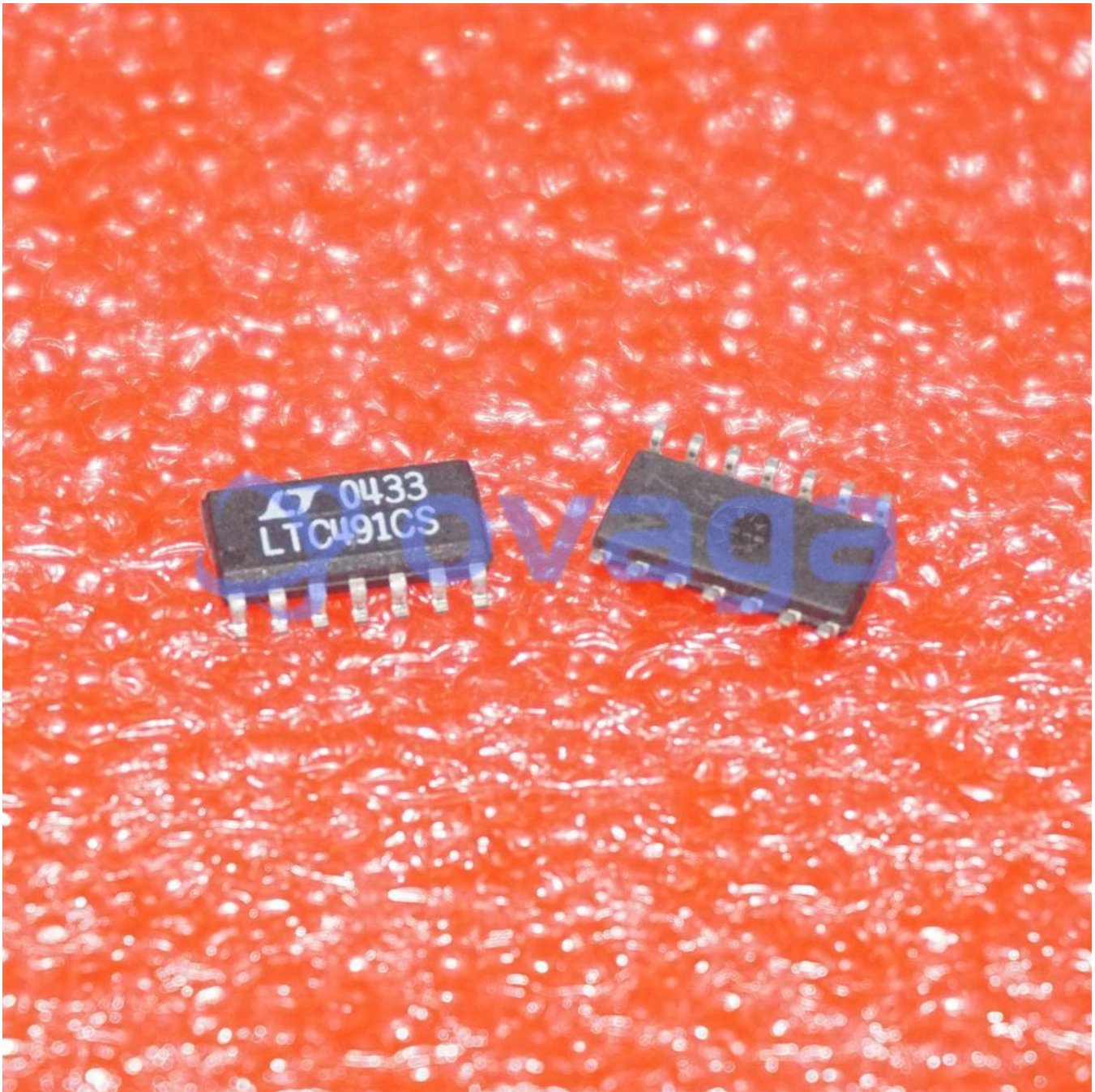
Pin Compatible with the SN75180

Available in 14-Lead PDIP and SO Packages

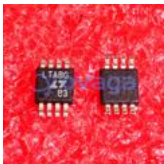
Application

Low Power RS485/RS422 Transceiver

Level Translator



Related Products



[LTC4300A-1IMS8#PBF](#)

Analog Devices, Inc
MSOP8



[LTC2870IUFD#PBF](#)

Analog Devices, Inc
28-QFN



[LTC2870IFE#PBF](#)

Analog Devices, Inc
TSSOP28



[LTC6820IMS#PBF](#)

Analog Devices, Inc
MSOP16



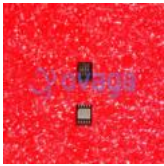
[LTC6820HMS#PBF](#)

Analog Devices, Inc
MSOP-16



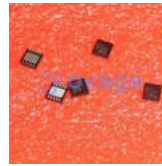
[LTM2881IV-3#PBF](#)

Analog Devices, Inc
LGA32



[LTC2854HDD#PBF](#)

Analog Devices, Inc
QFN-10



[LTC2852IDD#PBF](#)

Analog Devices, Inc
DFN10