

Single Transmitter/Receiver RS-485 8-Pin SOIC T/R

Manufacturer: [Texas Instruments, Inc](#)

Package/Case: SOP8

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

SN75LBC184DR Image

Images are for reference only

[Inquiry](#)

General Description

The SN75LBC184 and SN65LBC184 devices are differential data line transceivers in the trade-standard footprint of the SN75176 with built-in protection against high-energy noise transients. This feature provides a substantial increase in reliability for better immunity to noise transients coupled to the data cable over most existing devices. Use of these circuits provides a reliable low-cost direct-coupled (with no isolation transformer) data line interface without requiring any external components.

The SN75LBC184 and SN65LBC184 can withstand overvoltage transients of 400-W peak (typical). The conventional combination wave called out in IEC 61000-4-5 simulates the overvoltage transient and models a unidirectional surge caused by overvoltages from switching and secondary lightning transients.

Key Features

Integrated Transient Voltage Suppression

ESD Protection for Bus Terminals Exceeds: ± 30 kV IEC 61000-4-2, Contact Discharge ± 15 kV IEC 61000-4-2, Air-Gap Discharge ± 15 kV EIA/JEDEC Human Body Model

Circuit Damage Protection of 400-W Peak (Typical) Per IEC 61000-4-5

Controlled Driver Output-Voltage Slew Rates Allow Longer Cable Stub Lengths

250-kbps in Electrically Noisy Environments

Open-Circuit Fail-Safe Receiver Design

1/4 Unit Load Allows for 128 Devices Connected on Bus

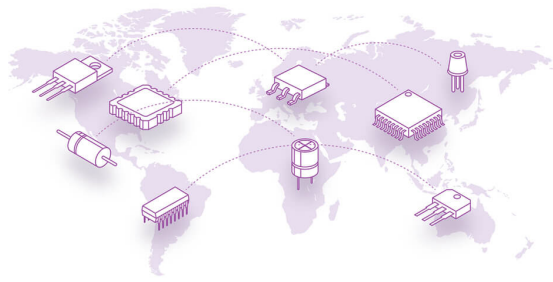
Thermal Shutdown Protection

Power-Up and Power-Down Glitch Protection

Each Transceiver Meets or Exceeds the Requirements of TIA/EIA-485 (RS-485) and ISO/IEC 8482:1993(E) Standards

Low Disabled Supply Current 300 μ A Maximum

Pin Compatible With SN75176



Recommended For You

SN65LV1224BDBR

Texas Instruments, Inc
SSOP28

SN75173N

Texas Instruments, Inc
DIP

SN65LBC179D

Texas Instruments, Inc
SOP8

SN75176AD

Texas Instruments, Inc
SOP-8

SN65LVDS3486D

Texas Instruments, Inc
SOP-16

SN65HVD33MDREP

Texas Instruments, Inc
SOP-14

SN65LVDS3487D

Texas Instruments, Inc
SOP16

SN65LBC175AD

Texas Instruments, Inc
SOP-16

SN65LVDS31PW

Texas Instruments, Inc
TSSOP-16

SN75176AP

Texas Instruments, Inc
DIP8

SN65LVDS33D

Texas Instruments, Inc
SOP-16

SN65LVDS32D

Texas Instruments, Inc
SOP-16

SN65LVDS31D

Texas Instruments, Inc
SOP

SN75175D

Texas Instruments, Inc
SOP

SN75175N

Texas Instruments, Inc
DIP