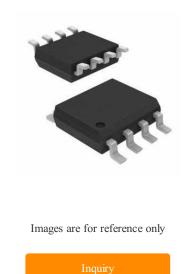


Single Transmitter/Receiver RS-485 8-Pin SOIC Tube

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP-8
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free Works
Lifecycle:	Active



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 µA Maximum

Pin Compatible With SN75176

Recommended For You

SN65LV1224BDBR Texas Instruments, Inc SSOP28

SN75176AD Texas Instruments, Inc SOP-8

SN65LVDS3487D Texas Instruments, Inc SOP16

SN75176AP Texas Instruments, Inc DIP8

SN65LVDS31D Texas Instruments, Inc

SOP

SN75173N Texas Instruments, Inc

DIP

SN65LVDS3486D Texas Instruments, Inc SOP-16

SN65LBC175AD Texas Instruments, Inc SOP-16

SN65LVDS33D Texas Instruments, Inc SOP-16

SN75175D Texas Instruments, Inc SOP SN65LBC179D

Texas Instruments, Inc SOP8

SN65HVD33MDREP Texas Instruments, Inc SOP-14

SN65LVDS31PW Texas Instruments, Inc

TSSOP-16

SN65LVDS32D Texas Instruments, Inc SOP-16

Texas Instruments, Inc

SN75175N