

DS34C86 Quad CMOS Differential Line Receiver

General Description

The DS34C86 is a quad differential line receiver designed to meet the RS-422, RS-423, and Federal Standards 1020 and 1030 for balanced and unbalanced digital data transmission, while retaining the low power characteristics of CMOS.

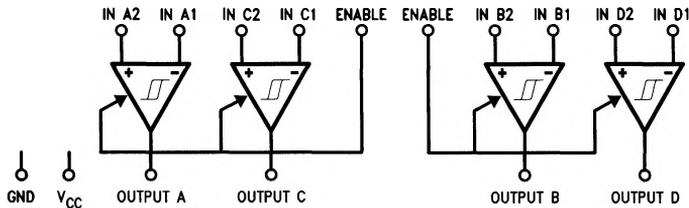
The DS34C86 has an input sensitivity of 200 mV over the common mode input voltage range of $\pm 7V$. Hysteresis is provided to improve noise margin and discourage output instability for slowly changing input waveforms.

Separate enable pins allow independent control of receiver pairs. The TRI-STATE[®] outputs have 6 mA source and sink capability. The DS34C86 is pin compatible with the DS3486.

Features

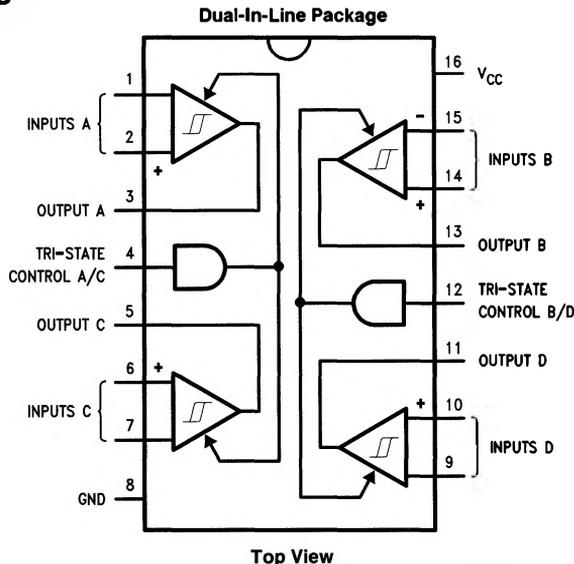
- Low power CMOS design
- $\pm 0.2V$ sensitivity over the entire common mode range
- Typical propagation delays: 20 ns
- Typical input hysteresis: 50 mV
- Inputs won't load line when $V_{CC} = 0V$
- Meets the requirements of EIA standard RS-422
- TRI-STATE outputs for connection to system buses

Logic Diagram



TL/F/8699-1

Connection Diagram



TL/F/8699-2

Order Number DS34C86J, DS34C86M, and DS34C86N
See NS Package Number J16A, M16A and N16A

For complete specifications see the Interface Databook.