



## DS26C32AC Quad Differential Line Receiver

### General Description

The DS26C32A 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.

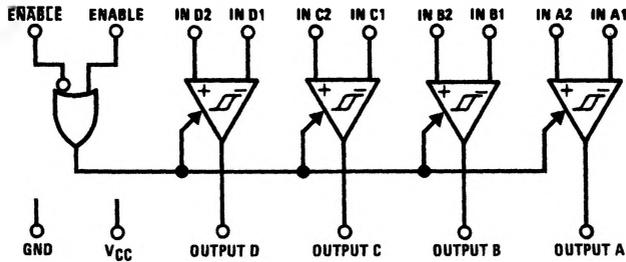
The DS26C32A has an input sensitivity of 200 mV over the common mode input voltage range of  $\pm 7V$ . Each receiver is also equipped with input fail-safe circuitry, which causes the output to go to a logic "1" state when the inputs are open.

The DS26C32A provides an enable and disable function common to all four receivers, and features TRI-STATE® outputs with 6 mA source and sink capability. This product is pin compatible with the DS26LS32A and the AM26LS32.

### Features

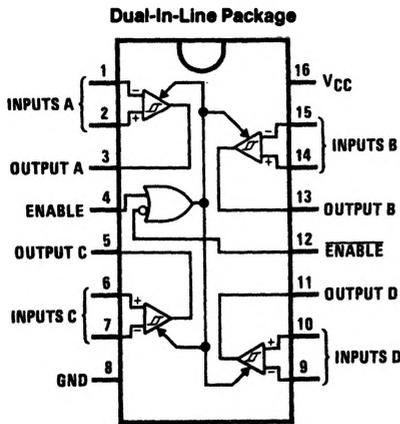
- Low power CMOS design
- $\pm 0.2V$  sensitivity over the entire common mode range
- Typical propagation delays: 19 ns
- Typical input hysteresis: 60 mV
- Input fail-safe circuitry
- Inputs won't load line when  $V_{CC} = 0V$
- Meets the requirements of EIA standard RS-422
- TRI-STATE outputs for connection to system buses
- Available in Surface Mount

### Logic Diagram



TL/F/8784-1

### Connection Diagram



Top View

TL/F/8784-2

Order Number DS26C32ACJ,  
DS26C32ACM or DS26C32ACN  
See NS Package J16A, M16A or N16A

### Truth Table

ENABLE	ENABLE	Input	Output
0	1	X	Hi-Z
See Note Below		$V_{ID} \geq V_{TH} (\text{Max})$	1
		$V_{ID} \leq V_{TH} (\text{Min})$	0
		Open	1

Hi-Z = TRI-STATE

Note: Input conditions may be any combination not defined for ENABLE and ENABE.