National Semiconductor

DS9636A/μA9636A
RS-423 Dual Programmable Slew Rate Line Driver

General Description

The DS9636A/μA9636A is a TTL/CMOS compatible, dual, single ended line driver which has been specifically designed to satisfy the requirements of EIA Standard RS-423.
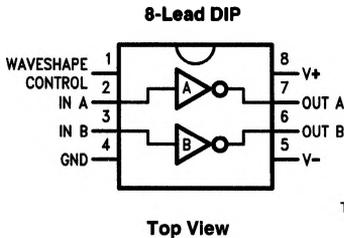
The DS9636A/μA9636A is suitable for use in digital data transmission systems where signal wave shaping is desired. The output slew rates are jointly controlled by a single external resistor connected between the wave shaping control lead (WS) and ground. This eliminates any need for external filtering of the output signals. Output voltage levels and slew rates are independent of power supply variations. Current-limiting is provided in both output states. The DS9636A/μA9636A is designed for nominal power supplies of ±12V.

Inputs are TTL compatible with input current loading low enough (1/10 UL) to be also compatible with CMOS logic. Clamp diodes are provided on the inputs to limit transients below ground.

Features

- Programmable slew rate limiting
- Meets EIA Standard RS-423
- Commercial or extended temperature range
- Output short circuit protection
- TTL and CMOS compatible inputs

Connection Diagram

8-Lead DIP

TL/F/9620-1

Top View

Order Number DM9636ARC/μA9636ARC,
DMS9636ARM/μA9636ARM or DM9636ATC/
μA9636ATC
See NS Package Number J08A or N08E