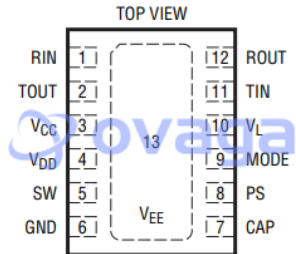


1.8V to 5.5V RS-232 Single and Dual Transceivers; Package: DFN; No of Pins: 12;
Temperature Range: 0°C to +70°C

LTC2801, LTC2802 1-Driver/1-Receiver



DE PACKAGE
12-LEAD (4mm × 3mm) PLASTIC DFN
 $T_{JMAX} = 125^{\circ}C$, $\theta_{JA} = 43^{\circ}C/W$, $\theta_{JC} = 4.3^{\circ}C/W$ (4 Layer)
EXPOSED PAD (PIN 13) IS V_{EE} , MUST BE SOLDERED TO PCB

Manufacturers	<u>Analog Devices, Inc</u>
Package/Case	DFN-12
Product Type	Interface ICs
RoHS	Pb-free Halide free
Lifecycle	

Images are for reference only

Please submit RFQ for LTC2802CDE#PBF or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The LTC2801/LTC2802/LTC2803/LTC2804 are single and dual RS-232 transceivers in narrow SSOP and chip-scale DFN packages. All operate over a supply range of 1.8V to 5.5V, which permits operation directly from two alkaline, NiCd or NiMH cells. An integrated DC-to-DC converter generates power supplies for driving RS-232 levels. A logic supply pin allows easy interfacing with different logic levels independent of the DC-DC supply.

These parts are compatible with the TIA/EIA-232-F standard. Driver outputs are protected from overload and can be shorted to ground or up to $\pm 15V$ without damage. To extend battery life, receivers can be kept active, operating at reduced speed, with only 15 μA current. In shutdown mode, current is further reduced to 1 μA .

Part Number Driver & Receivers Max Data Rate Modes Package
LTC2801 1 + 10.25Mbps SD, RA, DD, AODFN-12
LTC2802 1 + 11Mbps SD, RA, DD, AODFN - 12
LTC2803 2 + 20.25Mbps SD, RA, DD, AODFN-16
LTC2803-12 + 20.25Mbps SD, AOSSOP-16
LTC2804 2 + 21Mbps SD, RA, DD, AODFN-16
LTC2804-12 + 21Mbps SD, AOSSOP-16

Features

1.8V to 5.5V Supply Voltage

Single and Dual Transceivers

High-Speed Operation

1Mbps for 250pF/3k Ω Load (LTC2802, LTC2804)

250kbps for 1nF/3k Ω Load

100kbps for 2.5nF/3k Ω TIA/EIA-232-F Load

Low-Power 1 μ A Shutdown and 15 μ A Receivers-Active Modes

No Damage or Latchup to \pm 10kV ESD on RS-232 Interface

Logic Supply Pin for Easy Level-Shifting to UART or Microprocessor

Low-Latency Output Enable Allows Line Sharing and Half-Duplex Operation

True RS-232 Compliant Output Levels

Small Footprint:

LTC2801/LTC2802 4mm \times 3mm DFN Package

LTC2803/LTC2804 Narrow SSOP-16

5mm \times 3mm DFN Packages

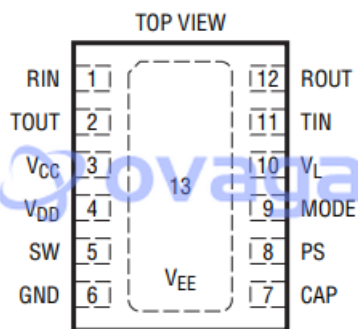
Application

Battery-Powered Systems

Computers and Consumer Electronics

Diagnostic Ports

LTC2801, LTC2802 1-Driver/1-Receiver

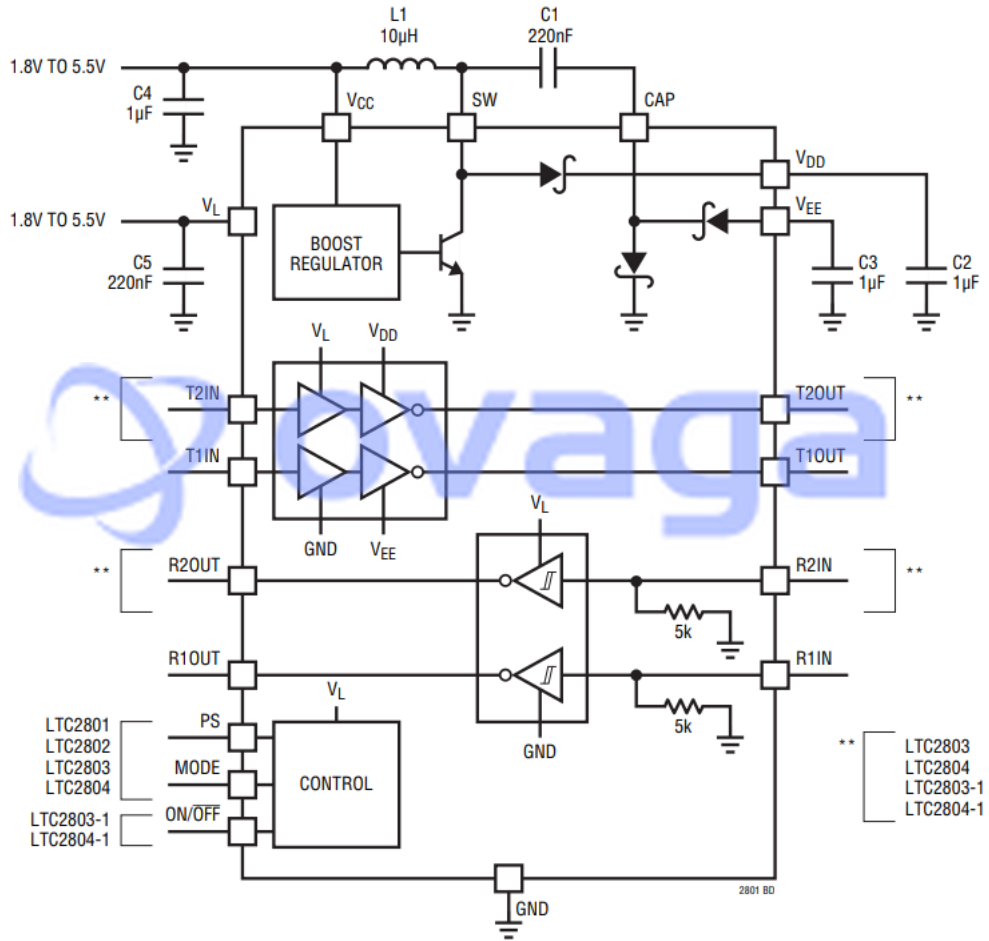


DFN PACKAGE

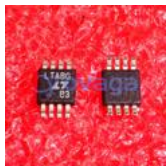
12-LEAD (4mm \times 3mm) PLASTIC DFN

T_{JMAX} = 125°C, θ_{JA} = 43°C/W, θ_{JC} = 4.3°C/W (4 Layer)

EXPOSED PAD (PIN 13) IS V_{EE}, MUST BE SOLDERED TO PCB



Related Products



[LTC4300A-1IMS8#PBF](#)

Analog Devices, Inc
MSOP8



[LTC2870IUFD#PBF](#)

Analog Devices, Inc
28-QFN



[LTC2870IFE#PBF](#)

Analog Devices, Inc
TSSOP28



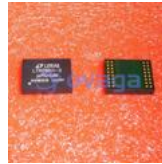
[LTC6820IMS#PBF](#)

Analog Devices, Inc
MSOP16



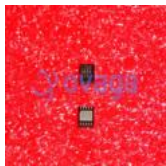
[LTC6820HMS#PBF](#)

Analog Devices, Inc
MSOP-16



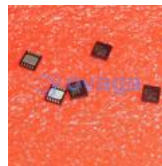
[LTM2881IV-3#PBF](#)

Analog Devices, Inc
LGA32



[LTC2854HDD#PBF](#)

Analog Devices, Inc
QFN-10



[LTC2852IDD#PBF](#)

Analog Devices, Inc
DFN10