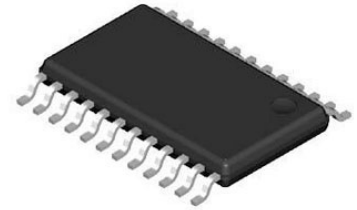


+/-15kV ESD Protected, +3V to +5.5V, 1Microamp, 250kbps, RS-232 Transceivers with Enhanced Automatic Powerdown and a Separate Logic Supply

Manufacturers	Renesas Technology Corp
Package/Case	TSSOP-24
Product Type	Interface ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL83387EIVZ-T or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL83387E is a 3.0V to 5.5V powered RS-232 transceiver that meets EIA/TIA-232 and V.28/V.24 specifications, even at

The ISL83387E features a VL pin that adjusts the logic pin output levels and input thresholds to values compatible with the VCC powering the external logic (for example, a UART).

The ISL83387E includes an enhanced automatic power-down function that powers down the on-chip power-supply and driver circuits. Automatic powerdown occurs when all receiver and transmitter inputs detect no signal transitions for a period of 30 seconds. The ISL83387E powers back up automatically, when it senses a transition on any transmitter or receiver input.

Application Note AN9863 summarizes the features of each device comprising the 3V RS-232 family.

Features

V_L supply pin for compatibility with mixed voltage systems

ESD protection for RS-232 I/O pins to $\pm 15\text{kV}$ (IEC61000)

Low power, pin compatible upgrade for MAX3387E

Manual and enhanced automatic powerdown features

Meets EIA/TIA-232 and V.28/V.24 specifications at 3V

On-chip charge pumps require only four external $0.1\mu\text{F}$ capacitors

Receivers stay active in powerdown

Very low supply current: $300\mu\text{A}$

Assured minimum data rate: 250kbps

Wide power supply range: Single +3V to +5.5V

Low supply current in powerdown state: $< 1\mu\text{A}$

Pb-Free (RoHS compliant)

Related Products



[ISL83491IBZ](#)

Renesas Technology Corp
SOIC-14



[ISL99227FRZ-T](#)

Renesas Technology Corp
32-PowerWFQFN



[ISL83072EIBZA](#)

Renesas Technology Corp
SOIC-8



[IS82C55AZ](#)

Renesas Technology Corp
PLCC-44



[ISL3170EIUZ](#)

Renesas Technology Corp
MSOP-10



[ISL83078EIBZA](#)

Renesas Technology Corp
SOIC-8



[ISL81487EIBZ](#)

Renesas Technology Corp
SOP-8



[ISL83387EIVZ](#)

Renesas Technology Corp
TSSOP-24