

HIN213EIAZ-T

Data Sheet

±15kV, ESD-Protected, +5V Powered, RS-232 Transmitters/Receivers; Temperature Range: -40°C to 85°C; Package: 28-SSOP T&R

Manufacturers Renesas Technology Corp Package/Case SSOP-28 Product Type Interface ICs

RoHS Rohs Lifecycle



Images are for reference only

Please submit RFQ for HIN213EIAZ-T or Email to us: sales@ovaga.com We will contact you in 12 hours.

RFO

General Description

The HIN202E, HIN206E, HIN207E, HIN208E, HIN211E, HIN213E, HIN232E family of RS-232 transmitters/receivers interface circuits meet all EIA high-speed RS-232E and V.28 specifications, and are particularly suited for those applications where ±12V is not available. A redesigned transmitter circuit improves data rate and slew rate, which makes this suitable for ISDN and high speed moderns. The transmitter outputs and receiver inputs are protected to ±15kV ESD (Electrostatic Discharge). They require a single +5V power supply and feature onboard charge pump voltage converters which generate +10V and -10V supplies from the 5V supply. The family of devices offers a wide variety of highspeed RS-232 transmitter/receiver combinations to accommodate various applications (see Selection Table). The HIN206E, HIN211E and HIN213E feature a low power shutdown mode to conserve energy in battery powered applications. In addition, the HIN213E provides two active receivers in shutdown mode allowing for easy "wakeup" capability. The drivers feature true TTL/CMOS input compatibility, slew rate-limited output, and 300Ω power-off source impedance. The receivers can handle up to ± 30 V input, and have a 3k Ω to 7k Ω input impedance. The receivers also feature hysteresis to greatly improve noise rejection.

Features

Pb-Free Plus Anneal Available (RoHS Compliant) High-Speed ISDN Compatible 230kbits/s ESD Protection for RS-232 I/O Pins to ± 15 kV (IEC61000) Meets All RS-232E and V.28 Specifications Requires Only 0.1 µF or Greater External Capacitors Two Receivers Active in Shutdown Mode (HIN213E) Requires Only Single +5V Power Supply Onboard Voltage Doubler/Inverter Low Power Consumption (Typ) 5mA Low Power Shutdown Function (Typ) 1 µA Three-State TTL/CMOS Receiver Outputs Multiple Drivers $\pm 10 V$ Output Swing for +5 V Input 300Ω Power-Off Source Impedance Output Current Limiting TTL/CMOS Compatible Multiple Receivers $\pm 30 V$ Input Voltage Range $3k\Omega$ to $7k\Omega$ Input Impedance 0.5V Hysteresis to Improve Noise Rejection



Related Products



HIN202EIBNZ

Renesas Technology Corp SOIC-16



HI1-5051-2

Renesas Technology Corp CDIP-16



HI1-0508-2

Renesas Technology Corp CDIP-16



HI1-5042-2

Renesas Technology Corp CDIP-16



HIN213ECAZ-T

Renesas Technology Corp SSOP-28



HI1-0546-2

Renesas Technology Corp CDIP-28



HI1-0201-2
Renesas Technology Corp

CDIP-16



HI3-0547-5Z

Renesas Technology Corp CDIP-28