Device Information

ICL232

Printer Friendly Version

+5V Powered, Dual RS-232 Transmitter/Receiver

DS Datasheet &	Description	<u>Key</u>	PT Parametric	Related
Related Docs		<u>Features</u>	<u>Data</u>	<u>Devices</u>

Ordering Information



Part No.	Status Temp.	Package	MSL	
ICL232CBE	Active Comm	16 Ld SOIC	1	Buy Sample
ICL232CBET	Active Comm	16 Ld SOIC T+R	1	Buy
ICL232CBEZ 🙌	Active Comm	16 Ld SOIC	3	Buy Sample
ICL232CBEZT 🙉	Active Comm	16 Ld SOIC T+R	3	Buy
ICL232CPE	Active Comm	16 Ld PDIP	N/A	Buy Sample
ICL232IBE	Active Ind	16 Ld SOIC	1	Buy Sample
ICL232IBET	Active Ind	16 Ld SOIC T+R	1	Buy
ICL232IPE	Active Ind	16 Ld PDIP	N/A	Buy Sample
ICL232MJE	Active Mil	16 Ld CerDIP	N/A	Buy

The price listed is the manufacturer's suggested retail price for quantities between 100 and 999 units. However, prices in today's market are fluid and may change without notice.

MSL = Moisture Sensitivity Level - per IPC/JEDEC J-STD-020

SMD = Standard Microcircuit Drawing

Description

The ICL232 is a dual RS-232 transmitter/receiver interface circuit that meets all EIA RS-232C and V.28 specifications. It requires a single +5V power supply, and features two onboard charge pump voltage converters which generate +10V and -10V supplies from the 5V supply.

The drivers feature true TTL/CMOS input compatibility, slewrate- limited output, and 300Ω power-off source impedance. The receivers can handle up to +30V, and have a $3k\Omega$ to $7k\Omega$ input impedance. The receivers also have hysteresis to improve noise rejection.

Key Features

- Meets All RS-232C and V.28 Specifications
- Requires Only Single +5V Power Supply
- Onboard Voltage Doubler/Inverter
- Low Power Consumption
- 2 Drivers
 - ±9V Output Swing for +5V Input
 - $_{\circ}$ 300 Ω Power-off Source Impedance
 - Output Current Limiting
 - o TTL/CMOS Compatible
 - o 30V/is Maximum Slew Rate
- 2 Receivers
 - ±30V Input Voltage Range
 - $_{\circ}~$ 3k Ω to 7k Ω Input Impedance
 - o 0.5V Hysteresis to Improve Noise Rejection
- All Critical Parameters are Guaranteed Over the Entire Commercial, Industrial and Military **Temperature Ranges**
- Pb-Free Plus Anneal Available (RoHS Compliant)

Related Documentation



Datasheet(s):

__+5V Powered, Dual RS-232 Transmitter/Receiver



Interface Ics

RS-232 Interface Ics

Parametric Data	РΤ	Parametric Data
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# of Tx	2
# of Rx	2
High ESD	No
Manual Shutdown	No
Auto Shutdown	No
Rx Disable	No
Data Rate (kbps)	120
Cap. Value (µF)	1
I _{CC} Enabled (mA)	5
I _{CC} Disabled (μA)	N/A
V _{CC} Range (+V)	4.5 to 5.5

Applications

- Any System Requiring RS-232 Communications Port
 - o Computer Portable and Mainframe
 - o Peripheral Printers and Terminals
 - Portable Instrumentation
 - Modems
- Dataloggers





HIN202	+5V Powered RS-232 Transmitters/Receivers' with 0.1Microfarad External Capacitors
<u>HIN206</u>	+5V Powered RS-232 Transmitters/Receivers' with 0.1Microfarad External Capacitors
<u>HIN207</u>	+5V Powered RS-232 Transmitters/Receivers' with 0.1Microfarad External Capacitors
<u>HIN208</u>	+5V Powered RS-232 Transmitters/Receivers' with 0.1Microfarad External Capacitors
HIN211	+5V Powered RS-232 Transmitters/Receivers' with 0.1Microfarad External Capacitors
HIN213	+5V Powered RS-232 Transmitters/Receivers' with 0.1Microfarad External Capacitors
<u>HIN232</u>	+5V Powered RS-232 Transmitters/Receivers
HIN236	+5V Powered RS-232 Transmitters/Receivers
HIN237	+5V Powered RS-232 Transmitters/Receivers
HIN238	+5V Powered RS-232 Transmitters/Receivers
HIN239	+5V Powered RS-232 Transmitters/Receivers
<u>HIN240</u>	+5V Powered RS-232 Transmitters/Receivers
HIN241	+5V Powered RS-232 Transmitters/Receivers

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