

Multiple RS-232 Drivers And Receivers

Features

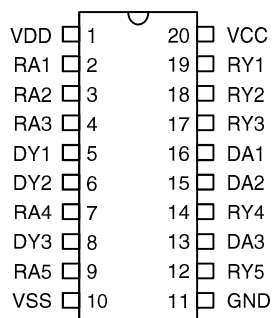
- Single-chip with easy interface between UART and serial port connector
- Three drivers and five receivers meet or exceed the requirements of EIA/TIA-232-D
- Driver output slew rate limited to 30V/ μ s max.
- Driver current-limited output: 10mA typ.
- Flexible supply voltage range
- ESD protection exceeds 3kV

General Description

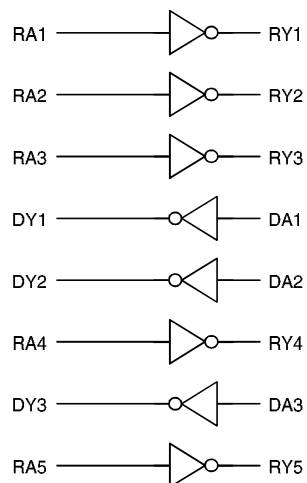
The HT6571 is a CMOS device containing three RS-232 line drivers, and five RS-232 line receivers that are used to interface data terminal

equipment (DTE) with data circuit-terminating equipment (DCE).

Pin Assignment



Block Diagram



Absolute Maximum Ratings

Supply Voltage (VSS VDD)	-15V~15V	Output Voltage Driver	-15V~15V
Supply Voltage (GND VCC)	-0.3V~5.5V	Receiver	0V~7V
Input Voltage Driver	0V~7V		
Receiver	-15V~15V		

Electrical characteristics

Symbol	Parameter	Test Condition			Min.	Typ.	Max.	Unit
		V _{DD}	V _{CC}	Condition				
V _{DD}	Operation Voltage	—	—	—	7.5	9	15	V
V _{SS}	Operation Voltage	—	—	—	-7.5	-9	-15	V
V _{CC}	Operation Voltage	—	—	—	4.5	5	5.5	V
V _{IH1}	Driver Input High	12V	5V		2	—	—	V
V _{IL1}	Driver Input Low	12V	5V		—	—	0.8	V
V _{IH2}	Receiver Input High	12V	5V		—	3	—	V
V _{IL2}	Receiver Input Low	12V	5V		—	2	—	V
I _{OH1}	Receiver Output Source Current	12V	5V	V _O =2.4V	-1	-2	-3	mA
I _{OL1}	Receiver Output Sink Current	12V	5V	V _O =0.4V	+1	+2	+3	mA
I _{OS(H)}	High-level Driver Short Current	12V	5V	V _O =0V	-6	-10	-12	mA
I _{OS(L)}	Low-level Driver Short Current	12V	5V	V _O =0V	30	40	50	mA
S _{R1}	Slew Rate	12V	5V	R _L =7K Ω , C ₁ =50pF	—	3	—	V/ μ s

