



Multiple RS-232 Drivers and Receivers

Features

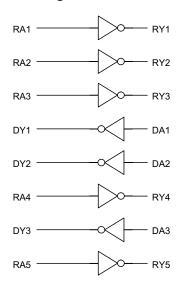
- Single-chip with easy interface between UART and serial port connector
- Three drivers and five receivers meet or exceed the requirements of EIA/TIA-232-D
- · Designed to support data rates up to 120 Kbit/s
- · Driver current-limited output: 25mA typ.
- Flexible supply voltage range
- · ESD protection exceeds 5kV
- 20-pin SOP package

General Description

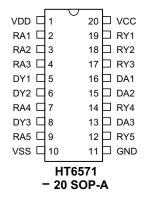
The HT6571 is a CMOS device containing three RS-232 line drivers, and five RS-232 line receivers that are used

to interface data terminal equipment (DTE) with data circuit-terminating equipment (DCE).

Block Diagram



Pin Assignment



Absolute Maximum Ratings

Supply Voltage (VSS VDD)15V~15V	Supply Voltage (GND VCC)
Input Voltage Driver	Receiver –15V~15V
Output Voltage Driver15V~15V	Receiver 0V~7V

Note: These are stress ratings only. Stresses exceeding the range specified under "Absolute Maximum Ratings" may cause substantial damage to the device. Functional operation of this device at other conditions beyond those listed in the specification is not implied and prolonged exposure to extreme conditions may affect device reliability.

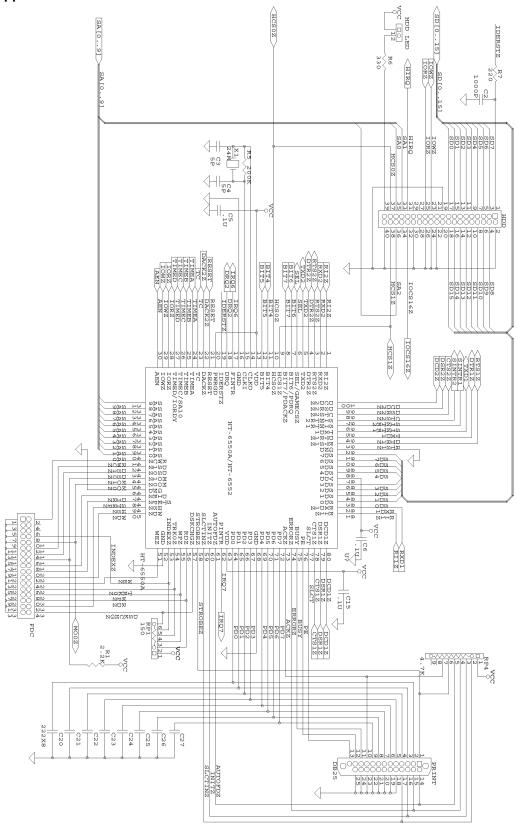


Electrical Characteristics

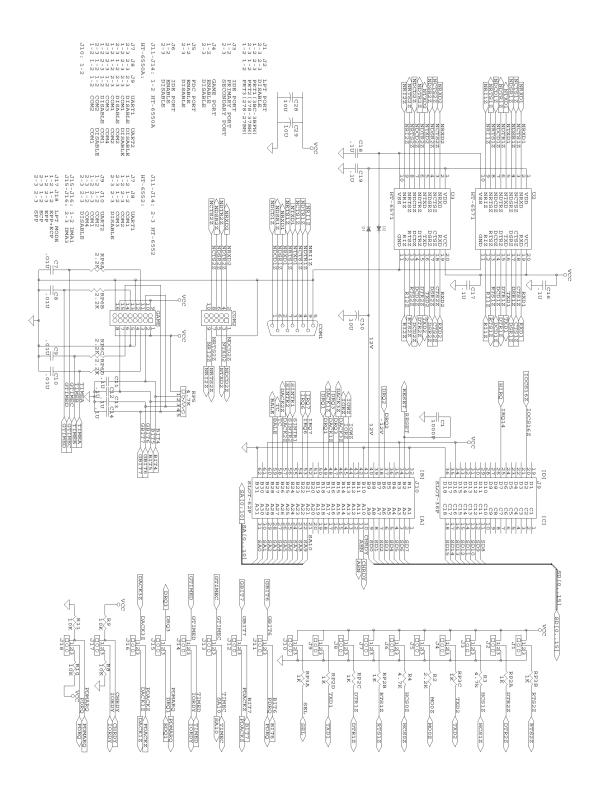
Symbol	Paremeter	Test Conditions			N4:	T	Max	11:4
Symbol		V _{DD}	V _{CC}	Conditions	Min.	Тур.	Max.	Unit
V _{DD}	Operation Voltage	_	_	_	7.5	9	15	V
V _{SS}	Operation Voltage	_	_	_	-7.5	-9	-15	V
V _{CC}	Operation Voltage	_	_	_	4.5	5	5.5	V
V _{IH1}	Driver Input High	12V	5V		2	_	_	V
V _{IL1}	Driver Input Low	12V	5V		_	_	0.8	V
V _{IH2}	Receiver Input High	12V	5V		3	_	_	V
V _{IL2}	Receiver Input Low	12V	5V		_	_	0	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	-15	-25	-35	mA
I _{OS(L)}	Low-level Driver Short Current	12V	5V	V _O =0V	15	25	35	mA
S _{R1}	Slew Rate	12V	5V	R_L =7kΩ, C_1 =330pF			30	V/μs



Application Circuits



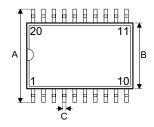


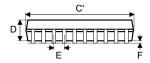




Package Information

20-pin SOP (300mil) outline dimensions





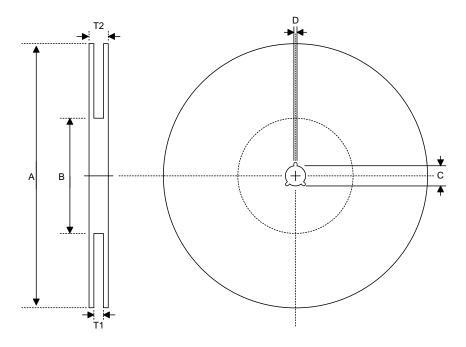


Cumahal	Dimensions in mil			
Symbol	Min.	Nom.	Max.	
А	394	_	419	
В	290	_	300	
С	14	_	20	
C'	490	_	510	
D	92	_	104	
Е	_	50	_	
F	4	_	_	
G	32	_	38	
Н	4	_	12	
α	0°	_	10°	



Product Tape and Reel Specifications

Reel dimensions

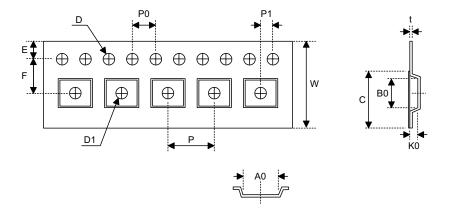


SOP 20W

Symbol	Description	Dimensions in mm
Α	Reel Outer Diameter	330±1.0
В	Reel Inner Diameter	62±1.5
С	Spindle Hole Diameter	13.0+0.5 -0.2
D	Key Slit Width	2.0±0.5
T1	Space Between Flange	24.8+0.3 -0.2
T2	Reel Thickness	30.2±0.2



Carrier tape dimensions



SOP 20W

Symbol	Description	Dimensions in mm
W	Carrier Tape Width	24.0+0.3 -0.1
Р	Cavity Pitch	12.0±0.1
E	Perforation Position	1.75±0.1
F	Cavity to Perforation (Width Direction)	11.5±0.1
D	Perforation Diameter	1.5+0.1
D1	Cavity Hole Diameter	1.5+0.25
P0	Perforation Pitch	4.0±0.1
P1	Cavity to Perforation (Length Direction)	2.0±0.1
A0	Cavity Length	10.8±0.1
В0	Cavity Width	13.3±0.1
K0	Cavity Depth	3.2±0.1
t	Carrier Tape Thickness	0.3±0.05
С	Cover Tape Width	21.3



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