

# 74HC20D,653 Information



For Reference Only

Part Number 74HC20D,653

Manufacturer Nexperia USA Inc.

Category Integrated Circuits (ICs)
Logic - Gates and Inverters

**Description** IC GATE NAND 2CH 4-INP 14-SO **Package** 14-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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# 74HC20D,653 Specifications

Manufacturer Part Number         74HC20D,653           Manufacturer         Nexperia USA Inc.           Category         Integrated Circuits (ICs)           Logic - Gates and Inverters           Package         14-SOIC (0.154", 3.90mm Width)           Series         74HC           Logic Type         NAND Gate           Number of Circuits         2           Number of Inputs         4           Features         -           Voltage - Supply         2 V ~ 6 V           Current - Quiescent (Max)         2μA           Current - Output High, Low         5.2mA, 5.2mA           Logic Level - Low         0.5 V ~ 1.8 V           Logic Level - High         1.5 V ~ 4.2 V           Max Propagation Delay @ V, Max CL         15ns @ 6V, 50pF           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Supplier Device Package         14-SO		
Category         Integrated Circuits (ICs)           Logic - Gates and Inverters           Package         14-SOIC (0.154", 3.90mm Width)           Series         74HC           Logic Type         NAND Gate           Number of Circuits         2           Number of Inputs         4           Features         -           Voltage - Supply         2 V ~ 6 V           Current - Quiescent (Max)         2μA           Current - Output High, Low         5.2mA, 5.2mA           Logic Level - Low         0.5 V ~ 1.8 V           Logic Level - High         1.5 V ~ 4.2 V           Max Propagation Delay @ V, Max CL         15ns @ 6V, 50pF           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Supplier Device Package         14-SO	Manufacturer Part Number	74HC20D,653
PackageLogic - Gates and InvertersPackage14-SOIC (0.154", 3.90mm Width)Series74HCLogic TypeNAND GateNumber of Circuits2Number of Inputs4Features-Voltage - Supply2 V ~ 6 VCurrent - Quiescent (Max)2 $\mu$ ACurrent - Output High, Low5.2mA, 5.2mALogic Level - Low0.5 V ~ 1.8 VLogic Level - High1.5 V ~ 4.2 VMax Propagation Delay @ V, Max CL15ns @ 6V, 50pFOperating Temperature-40°C ~ 125°CMounting TypeSurface MountSupplier Device Package14-SO	Manufacturer	Nexperia USA Inc.
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Series $74HC$ Logic TypeNAND GateNumber of Circuits2Number of Inputs $4$ Features-Voltage - Supply $2 \text{ V} \sim 6 \text{ V}$ Current - Quiescent (Max) $2\mu A$ Current - Output High, Low $5.2\text{mA}, 5.2\text{mA}$ Logic Level - Low $0.5 \text{ V} \sim 1.8 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 4.2 \text{ V}$ Max Propagation Delay @ V, Max CL $15\text{ns}$ @ $6\text{V}$ , $50\text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14\text{-SO}$		Logic - Gates and Inverters
Logic Type NAND Gate  Number of Circuits 2  Number of Inputs 4  Features - Voltage - Supply 2 $V \sim 6$ $V$ Current - Quiescent (Max) 2 $\mu$ A  Current - Output High, Low 5.2 $\mu$ A  Logic Level - Low 0.5 $V \sim 1.8$ $V$ Logic Level - High 1.5 $V \sim 4.2$ $V$ Max Propagation Delay @ $V$ , Max CL 15 $\mu$ S @ 6 $V$ , 50 $\mu$ F  Operating Temperature -40°C $\sim 125^{\circ}$ C  Mounting Type Surface Mount  Supplier Device Package 14-SO	Package	14-SOIC (0.154", 3.90mm Width)
Number of Circuits2Number of Inputs4Features-Voltage - Supply $2 \text{ V} \sim 6 \text{ V}$ Current - Quiescent (Max) $2\mu\text{A}$ Current - Output High, Low $5.2\text{mA}$ , $5.2\text{mA}$ Logic Level - Low $0.5 \text{ V} \sim 1.8 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 4.2 \text{ V}$ Max Propagation Delay @ V, Max CL $15\text{ns}$ @ 6V, $50\text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14-\text{SO}$	Series	74HC
Number of Inputs4Features-Voltage - Supply2 V ~ 6 VCurrent - Quiescent (Max)2μACurrent - Output High, Low $5.2\text{mA}$ , $5.2\text{mA}$ Logic Level - Low $0.5 \text{ V} \sim 1.8 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 4.2 \text{ V}$ Max Propagation Delay @ V, Max CL $15\text{ns}$ @ 6V, $50\text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14\text{-SO}$	Logic Type	NAND Gate
Features - Voltage - Supply $2 \text{ V} \sim 6 \text{ V}$ Current - Quiescent (Max) $2\mu\text{A}$ Current - Output High, Low $5.2\text{mA}$ , $5.2\text{mA}$ Logic Level - Low $0.5 \text{ V} \sim 1.8 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 4.2 \text{ V}$ Max Propagation Delay @ V, Max CL $15\text{ns}$ @ 6V, $50\text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting Type Surface Mount Supplier Device Package $14\text{-SO}$	Number of Circuits	2
Voltage - Supply $2\ V \sim 6\ V$ $Current - Quiescent (Max) \\ Current - Output High, Low \\ Logic Level - Low \\ Logic Level - High \\ Max Propagation Delay @ V, Max CL 15ns @ 6V, 50pF Operating Temperature \\ Mounting Type \\ Surface Mount \\ Supplier Device Package 14-SO$	Number of Inputs	4
Current - Quiescent (Max) $2\mu A$ $Current$ - Output High, Low $5.2mA$ , $5.2mA$ $0.5 V \sim 1.8 V$ $0.5 V \sim 1.8 V$ Logic Level - High $1.5 V \sim 4.2 V$ $0.5 V \sim 4.2 V$ Max Propagation Delay @ V, Max CL $15ns @ 6V$ , $50pF$ $0perating Temperature 100 V \sim 125 ° C 100 V$	Features	-
Current - Output High, Low $5.2 \text{mA}$ , $5.2 \text{mA}$ Logic Level - Low $0.5 \text{ V} \sim 1.8 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 4.2 \text{ V}$ Max Propagation Delay @ V, Max CL $15 \text{ns}$ @ $6 \text{V}$ , $50 \text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14-\text{SO}$	Voltage - Supply	2 V ~ 6 V
Logic Level - Low $0.5 \text{ V} \sim 1.8 \text{ V}$ Logic Level - High $1.5 \text{ V} \sim 4.2 \text{ V}$ Max Propagation Delay @ V, Max CL $15\text{ns}$ @ 6V, $50\text{pF}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface MountSupplier Device Package $14\text{-SO}$	Current - Quiescent (Max)	2μΑ
Logic Level - High  1.5 V ~ 4.2 V  Max Propagation Delay @ V, Max CL  15ns @ 6V, 50pF  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Supplier Device Package  14-SO	Current - Output High, Low	5.2mA, 5.2mA
Max Propagation Delay @ V, Max CL15ns @ 6V, 50pFOperating Temperature-40°C ~ 125°CMounting TypeSurface MountSupplier Device Package14-SO	Logic Level - Low	0.5 V ~ 1.8 V
Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount  Supplier Device Package 14-SO	Logic Level - High	1.5 V ~ 4.2 V
Mounting Type Surface Mount Supplier Device Package 14-SO	Max Propagation Delay @ V, Max CL	15ns @ 6V, 50pF
Supplier Device Package 14-SO	Operating Temperature	-40°C ~ 125°C
	Mounting Type	Surface Mount
	Supplier Device Package	14-SO
Package / Case 14-SOIC (0.154", 3.90mm Width)	Package / Case	14-SOIC (0.154", 3.90mm Width)
Report errors?		Report errors?

### 74HC20D,653 Guarantees



### **Quality Guarantees**

We provide 90 days warranty. \*

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



#### **Service Guarantees**

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

### 74HC20D,653 Payment Methods



















## 74HC20D,653 Shipping Methods













If you have any question about 74HC20D,653, please do not hesitate to contact us!

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