

Product Overview

NCS2200A: Comparator, Complementary, Low Voltage

For complete documentation, see the data sheet.

The NCS2200 series is an industry first sub-one volt, low power comparator family. These devices consume only 10uA of supply current. They are guaranteed to operate at a low voltage of 0.85V which allows them to be used in systems that require less than 1.0V and are fully operational up to 6.0V which makes them convenient for use in both 3.0V and 5.0V systems. Additional features include no output phase inversion and overdriven inputs, internal hysteresis, which allows for clean output switching, and rail-to-rail input and output performance. The NCS2200 series is available in the tiny SOT23-5. There are eight options featuring two industry standard pinouts. Additionally, the NCS2200 and NCS2202 are available in the SC70-5 package. The NCS2200 is also available in the tiny DFN 2x2.2 package. The NCS2200A is available in UDFN 1.2x1.0 package.

Features

- Operating Voltage of 0.85 V to 6.0 V
- Rail-to-rail Input/Output Performance
- Low Supply Current of 10 μ A
- No Phase Inversion/Glitchless transitioning in or out of Tri-State Mode
- Complementary or Open Drain Output Configuration
- Available with the Enable Function

Benefits

- Low operating voltage enables sub 1.0V applications
- Smallest automotive qualified comparator available

Applications

- Window Comparator
- Voltage Detector
- Zero-Crossing Detectors
- Signal Conditioning
- Sensor Interface

End Products

- Industrial Control Systems
- White Goods
- Automotive

Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	Channels	V _{CC} Min (V)	V _{CC} Max (V)	I _O Typ (mA)	I _{CC} Typ (mA)	t _{res} Typ (ns)	V _{IO} Max (mV)	T _A Min (°C)	T _A Max (°C)	Package Type
NCS2200AMUT1G	0.1469	Pb-free	Active	1	0.85	6	60	0.01	1100	5	-40	105	UDFN-6
		Halide free											
NCV2200AMUTBG	0.2533	AEC Qualified PPAP Capable Pb-free Halide free	Active	1	0.85	6	60	0.01	1100	5	-40	105	UDFN-6

For more information please contact your local sales support at www.onsemi.com.

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