

Product Overview

NCS2220: Comparator, Dual, Low Voltage

For complete documentation, see the data sheet.

The NCS2220A is an industry first sub-one volt, low power dual comparator. This device consumes only 7.5 μ A per comparator of supply current typically. It is guaranteed to operate at a low voltage of 0.85 V which allows it to be used in systems that require less than 1.0 V and is fully operation up to 6.0 V which makes it convenient for use in both 3.0 V and 5.0 V systems. Additional features include no output phase inversion with overdriven inputs, internal hysteresis, which allows for clean output switching, and rail-to-rail input and output performance.

Features

- Operating Voltage of 0.85 V to 6.0 V
- Rail-to-rail Input/Output Performance
- Low Supply Current of 7.5 A (typ)per comparator
- No Phase Inversion/Glitchless transitioning in or out of Tri-State Mode
- Complementary Output Configuration

Benefits

- Provides wide power supply flexibility
- Improves signal to noise ratio
- Ideal for portable equipment
- Robust performance
- Compatible with standard logic levels

Applications

- Window Comparator
- Voltage Detector
- Zero-Crossing Detectors

End Products

- Blood Glucose Meters

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
NCS2220AMUT1G	0.4373	Pb-free Halide free	Active	2	0.85	6	60	0.0075	500	5	-40	105	UDFN-8

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

Created on: 7/3/2020