

Product Overview

NCS3402: Comparator, Dual, Low Power

For complete documentation, see the data sheet.

The NCS3402 is a nano-power comparator consuming only 470 nA per channel supply current, which make this device ideal for battery power and wireless handset applications. The NCS3402 has a minimum operating supply voltage of 2.7 V over the extended industrial temperature range ($T_A = -40^{\circ}\text{C}$ to 125°C), while having an input common-mode range of -0.1 to $V_{CC} + 5$ V. The ultra low supply current makes the NCS3402 an ideal choice for battery powered and portable applications where quiescent current is the primary concern. Reverse battery protection guards the amplifier from an over-current condition due to improper battery installation. For harsh environments, the inputs can be taken 5 V above the positive supply rail without damage to the device.

Features

- Low Supply Current
- Input Common Mode Range Exceeds the power supply rails.
- Wide supply range.
- Reverse Battery Protection
- Open Drain Comparator

Applications

- Voltage sense circuit.
- Power supply monitoring circuit
- Wireless headsets
- Portable measurement instrumentation

Benefits

- Long battery life and power savings for green certification.
- Robust to overvoltage conditions.
- Suitable for wide variety of applications. Portable, industrial, white goods.
- Protects against power supply reversal.
- Allows output interfacing to various logic levels and wired-OR outputs.

End Products

- Power Supply Adapters

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 ($^{\circ}\text{C}$)	T_A Max ($^{\circ}\text{C}$)	Package Type
NCS3402DR2G	0.576	Pb-free Halide free	Active	2	2.7	16	0.5	0.00047	5000	3.6	-40	125	SOIC-8

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

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