

Product Overview

NLAS5223C: Ultra-Low 0.35 Ω Dual SPDT Analog Switch

For complete documentation, see the data sheet.

The NLAS5223C is an advanced CMOS analog switch fabricated in Sub-micron silicon gate CMOS technology. The device is a dual Independent Single Pole Double Throw (SPDT) switch featuring Ultra-Low RON of 0.35 Ω , at $V_{CC} = 4.3$ V. The part also features guaranteed Break Before Make (BBM) switching, assuring the switches never short the driver.

Features

- Ultra-Low RON, 0.35 (typ) at $V_{CC} = 4.3$ V
- Single Supply Operation from 1.65-4.5 V
- High Off-Channel Isolation
- Low Standby Current, 50 nA
- RON Flatness of 0.15
- 1.4 x 1.8 x 0.55 mm UQFN10 Pb-Free

Applications

- Cell Phone Audio Block
- Speaker and Earphone Switching
- Ring-Tone Chip/Amplifier Switching
- Modems

Benefits

- Higher Quality Sound
- Works in most platforms without having to create a new power rail
- Reduces distortion due to crosstalk
- Supports longer battery life
- Low distortion
- Supports small form factor products

End Products

- Smartphones

Part Electrical Specifications

| Product | Compliance | Status | Channels | Number of Switches | Configuration | I_{CC} Max (μ A) | r_{on} Max (Ω) | V_{CC} Min (V) | V_{CC} Max (V) | Package Type |
|-----------------|-------------|--------|----------|--------------------|---------------|-------------------------|---------------------------|------------------|------------------|--------------|
| NLAS5223CLMUTAG | Pb-free | Active | 2 | 4 | SPDT | 2 | 0.35 | 1.65 | 4.5 | UQFN-10 |
| | Halide free | | | | | | | | | |
| NLAS5223CMUTAG | Pb-free | Active | 2 | 4 | SPDT | 2 | 0.35 | 1.65 | 4.5 | UQFN-10 |
| | Halide free | | | | | | | | | |

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

Created on: 2/17/2019