

# OPA333AQDBVRQ1

## Op Amp Single Micropower Amplifier R-R I/O $\pm 2.75$ V/5.5V Automotive 5-Pin SOT-23 T/R

Manufacturer: <u>Texas Instruments, Inc</u>

Package/Case: SOT23-5

**Product Type:** Amplifier ICs

RoHS: RoHS Compliant/Lead free RoHS

**Lifecycle:** Active

OPA333AQDBVRQ1 Image

Images are for reference only

Inquiry

#### **General Description**

The OPA333-Q1 CMOS operational amplifier uses a proprietary autocalibration technique to simultaneously provide verylow offset voltage (10  $\mu$ V maximum) and near-zero drift over time and temperature. This miniature, high-precision, low-quiescent-current amplifier offers high-impedance inputs that have a common-mode range 100 mV beyond the rails, and rail-to-rail output that swings within 50 mV of the rails. The device can use single or dual supplies as low as 1.8 V ( $\pm$ 0.9 V) and up to 5.5 V ( $\pm$ 2.75 V), and is optimized for low-voltage single-supply operation.

The OPA333-Q1 device offers excellent common-mode rejection ratio (CMRR) without the crossover associated with traditional complementary input stages. This design results in superior performance for driving analog-to-digital converters (ADCs) without degradation of differential linearity.

#### **Key Features**

AEC-Q100 qualified for automotive applications: Temperature grade 1: -40°C to +125°C, T<sub>A</sub>

Low offset voltage: 10 µV (maximum)

0.01-Hz to 10-Hz noise: 1.1 μVpp

Quiescent current: 17 µA

Single-supply operation

Supply voltage: 1.8 V to 5.5 V

Rail-to-rail input and output

Microsize 5-pin SOT-23 (DBV) package









### Recommended For You

OPA445BM

Texas Instruments, Inc

CAN

OPA2365AQDRQ1

Texas Instruments, Inc

SOP8

OPA656U

Texas Instruments, Inc

SOP8

OPA353UA

Texas Instruments, Inc

SOP8

**OPA453FAKTWT** 

Texas Instruments, Inc

TO263-7

**OPA1611AIDR** 

Texas Instruments, Inc

SOP8

**OPA334AIDBVR** 

Texas Instruments, Inc

SOT23-6

OPA360AIDCKR

Texas Instruments, Inc

SC70-6

LM13700MX/NOPB

Texas Instruments, Inc

SOP16

**OPA4251UA** 

Texas Instruments, Inc

SOP14

OPA388QDBVRQ1

Texas Instruments, Inc

SOT23-5

OPA2835IDGSR

Texas Instruments, Inc

MSOP10

LM111H/NOPB

Texas Instruments, Inc

CAN8

OPA633KP

Texas Instruments, Inc

DIP8

LMV321M5X/NOPB

Texas Instruments, Inc

SOT23-5