

**Conv DC-DC 3V to 5.5V Non-Inv/Inv/Step Up/Step Down Single-Out
0V to 11V 0.35A Automotive 5-Pin SOT-23 T/R**

Manufacturer:	Texas Instruments, Inc	<input type="text" value="SN6501QDBVRQ1 Image"/>
Package/Case:	SOT23-5	Images are for reference only
Product Type:	Power Management ICs	Inquiry
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The SN6501-Q1 is a monolithic oscillator/power-driver, specifically designed for small form factor, isolated power supplies in isolated interface applications. The device drives a low-profile, center-tapped transformer primary from a 3.3-V or 5-V DC power supply. The secondary can be wound to provide any isolated voltage based on transformer turns ratio.

The SN6501-Q1 consists of an oscillator followed by a gate drive circuit that provides the complementary output signals to drive the ground referenced N-channel power switches. The internal logic ensures break-before-make action between the two switches.

The SN6501-Q1 is available in a small SOT-23 (5) package, and is specified for operation at temperatures from -40°C to 125°C.

Key Features

Qualified for Automotive Applications

AEC-Q100 Qualified With the Following Results
Device Temperature Grade 1: -40°C to 125°C Ambient Operating Temperature Range

Device HBM ESD Classification Level H2

Device CDM ESD Classification Level C4B

Functional Safety-Capable
Documentation available to aid functional safety system design

Push-Pull Driver for Small Transformers

Single 3.3-V or 5-V Supply

High Primary-side Current Drive:
5-V Supply: 350 mA (Max)

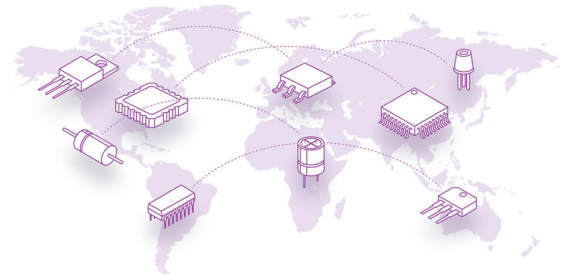
3.3-V Supply: 150 mA (Max)

Low Ripple on Rectified Output Permits Small Output Capacitors

Small 5-Pin SOT-23 Package

Application

Automotive, Power Management, Automation & Process Control, Communications & Networking, Medical



Recommended For You

SN105125DBVR

Texas Instruments, Inc

SOT23-5

BQ2050HSN-A508

Texas Instruments, Inc

SOP16

BQ2000SN-B5

Texas Instruments, Inc

SOP8

SN6501DBVT

Texas Instruments, Inc

SOT23-5

SN6505BQDBVTQ1

Texas Instruments, Inc

SOT-23-6

BQ2014HSN

Texas Instruments, Inc

SOP-16

BQ2002FSN

Texas Instruments, Inc

SOP8

BQ2002TSN

Texas Instruments, Inc

SOP-8

BQ2004HSN

Texas Instruments, Inc

SOP16

BQ2004SN

Texas Instruments, Inc

SOP16

BQ2002SN

Texas Instruments, Inc

SOP8

BQ2057WSNIR

Texas Instruments, Inc

SOP8

BQ2004ESN

Texas Instruments, Inc

SOP16

BQ2000TSN-B5

Texas Instruments, Inc

SOP8

BQ2004HSNIR

Texas Instruments, Inc

SOP16