UCC21520DWR

Driver 6A 2-OUT High and Low Side Half Brdg Non-Inv Automotive 16-Pin SOIC T/R

Manufacturer:	Texas Instruments, Inc
Package/Case:	SOP16
Product Type:	Drivers
RoHS:	RoHS Compliant/Lead free
Lifecycle:	Active

UCC21520DWR Image

Images are for reference only

Inquiry

General Description

The UCC21520 and the UCC21520A areisolated dual-channel gate driver with 4-A source and 6-A sink peak current. It is designed todrive power MOSFETs, IGBTs, and SiC MOSFETs up to 5-MHz with best-in-class propagation delay andpulse-width distortion.

The input side is isolated from the two output drivers by a5.7-kVRMS reinforced isolation barrier, with a minimum of 100-V/nscommon-mode transient immunity (CMTI). Internal functional isolation between the two secondary-sidedrivers allows a working voltage of up to 1500 VDC.

Every driver can beconfigured as two low-side drivers, two high-side drivers, or a half-bridge driver withprogrammable dead time (DT). A disable pin shuts down both outputs simultaneously when it is sethigh, and allows normal operation when left open or grounded. As a fail-safe measure, primary-sidelogic failures force both outputs low.

Each device accepts VDDsupply voltages up to 25 V. A wide input VCCI range from 3 V to 18 V makes the driver suitable forinterfacing with both analog and digital controllers. All the supply voltage pins have undervoltage lock-out (UVLO) protection.

With all these advanced features, the UCC21520 and theUCC21520A enable highefficiency, high power density, and robustness in a wide variety of power applications.

Key Features

Universal: Dual Low-Side, Dual High-Side or Half-Bridge Driver

Operating Temperature Range –40 to +125°C

Common-Mode Transient Immunity (CMTI) Greater than 100 V/ns

Surge Immunity up to 12.8 kV

Isolation Barrier Life >40 Years

4-A Peak Source, 6-A Peak Sink Output

TTL and CMOS Compatible Inputs

3-V to 18-V Input VCCI Range to Interface with Both Digital and Analog Controllers

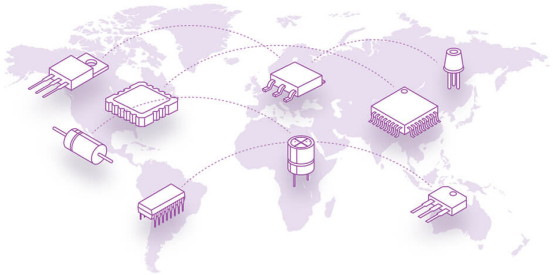
Up to 25-V VDD Output Drive Supply

Programmable Overlap and Dead Time

Rejects Input Pulses and Noise Transients Shorter than 5 ns

Fast Disable for Power Sequencing

Safety-Related Certifications:



AVAQ

Recommended For You

UCC28064ADR	**UC3637N**	**UCC27517DBVR**
Texas Instruments, Inc	Texas Instruments, Inc	Texas Instruments, Inc
SOP16	DIP-18	SOT23-5

UCC2946TPWRQ1

Texas Instruments, Inc

TSSOP8

UCC28730QDRQ1

Texas Instruments, Inc

SOP7

UCC21222QDRQ1

Texas Instruments, Inc

SOP16

UCD9090QRGZRQ1

Texas Instruments, Inc

VQFN-48

UCC27531QDBVRQ1

Texas Instruments, Inc

SOT23-6

UCC27511AQDBVRQ1

Texas Instruments, Inc

SOT23-6

UCC2803QDRQ1

Texas Instruments, Inc

SOP8

UCC28951QPWRQ1

Texas Instruments, Inc

TSSOP24

UCC21320QDWKRQ1

Texas Instruments, Inc

SOIC-14

UCC27322QDGNRQ1

Texas Instruments, Inc

HVSSOP-8

UCC28950QPWRQ1

Texas Instruments, Inc

TSSOP24

UCC2808AQDR-2Q1

Texas Instruments, Inc

SOP8