

Full Bridge Motor Driver Automotive 16-Pin WQFN EP T/R

Manufacturer:	Texas Instruments, Inc	<input type="text" value="DRV8801AQRMJRQ1 Image"/>
Package/Case:	WQFN16	Images are for reference only
Product Type:	Driver ICs	<input type="button" value="Inquiry"/>
RoHS:	RoHS Compliant/Lead free 	
Lifecycle:	Active	

General Description

The DRV8801A-Q1 device provides a versatile motor-driver solution with a full H-bridge driver. The device can drive a brushed DC motor or one winding of a stepper motor, as well as other devices like solenoids. A simple PHASE and ENABLE interface allows easy interfacing to controller circuits.

The output stages use N-channel power MOSFETs configured as an H-bridge. The DRV8801A-Q1 device is capable of peak output currents up to ± 2.8 A and operating voltages up to 36 V. An internal charge pump generates required gate drive voltages.

A low-power sleep mode is provided which shuts down internal circuitry to achieve very low quiescent current draw. This sleep mode can be set using a dedicated nSLEEP pin.

Internal protection functions are provided undervoltage lockout, overcurrent protection, short-to-supply protection, short-to-ground protection, overtemperature warning, and overtemperature shutdown. Overcurrent (including short-to-ground and short-to-supply) and overtemperature fault conditions are indicated via an nFAULT pin.

The DRV8801A-Q1 device is packaged in a 16-pin WQFN package with wettable flanks and exposed thermal pad (Eco-friendly: RoHS & no Sb/Br).

Key Features

Qualified for Automotive Applications

Low ON-Resistance ($0.83\ \Omega$) Outputs

Low-Power Sleep Mode

100% PWM Duty Cycle Supported

6.5 to 36-V Operating Supply Voltage Range

Thermally Enhanced Surface-Mount Package

Configurable Overcurrent Limit

Protection Features

V

BB

Overcurrent Protection (OCP)

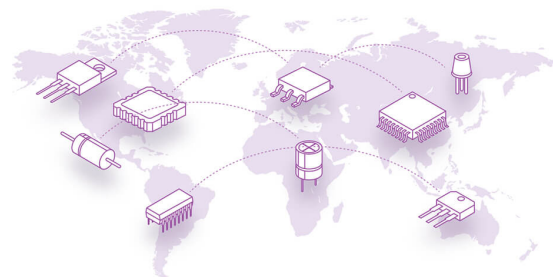
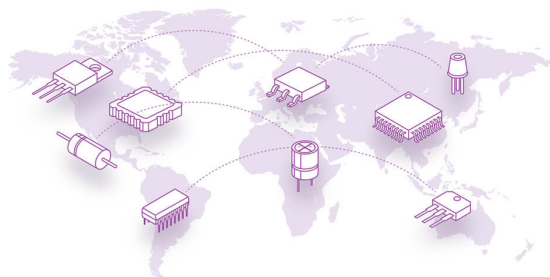
Short-to-Supply Protection

Short-to-Ground Protection

Overtemperature Warning (OTW)

Overtemperature shutdown (OTS)

Overcurrent and Overtemperature Fault Conditions Indicated On Pin (nFAULT)



Recommended For You

TL7705ACDR

Texas Instruments, Inc
SOP8

DRV8839DSSR

Texas Instruments, Inc
WSO8-12

REF5025AQDRQ1

Texas Instruments, Inc
SOP8

TL431ACDR

Texas Instruments, Inc
SOP8

LM74800QDRRRQ1

Texas Instruments, Inc
WSO8-12

LP2951-50QDRGRQ1

Texas Instruments, Inc
SON-8

LMB85BDR-2-5

Texas Instruments, Inc
SOP8

TL1431QDR

Texas Instruments, Inc
SOP8

UCC28064ADR

Texas Instruments, Inc
SOP16

TPS2557DRBT

Texas Instruments, Inc
SON8

DRV8846RGER

Texas Instruments, Inc
VQFN24

TPS2042BDR

Texas Instruments, Inc
SOP8

TPS2051BDR

Texas Instruments, Inc
SOP8

TPS2116DRLR

Texas Instruments, Inc
SOT5X3-8

DRV8837DSGR

Texas Instruments, Inc
WSO8