

Description

The TCM8833CK is a bipolar stepper-motor driver with dual, built-in full-bridges consisting of N channel power MOSFETs.

It operates from a supply voltage range of 2.7V to 20V and can deliver motor current up to 1.0A per channel. The internal safety features include overcurrent protection, short-circuit protection, sinking and sourcing current limits implemented with external sensors, under-voltage lockout and thermal shutdown. Internal

An over-temperature output flag is available to indicate thermal shutdown.

The TCM8833CK is available in 5.0mm×6.4mm ETSSOP16L and QFN3X3-16 package.

Device Information

| Part No. | Package | Quantity |
|----------------|-----------|-----------|
| TCM8833CK_ETSP | ETSSOP16L | 4000/Reel |
| TCM8833CK_QCP | QFN3X3-16 | 4000/Reel |

Features

- Wide 2.7-20V Input Voltage Range
- Continuous current up to 1.0A
- $R_{DS(on)}$: 950mΩ (HS+LS)
- Low Quiescent Current
- Low Sleep Current
- Thermal Shutdown protection
- Under-Voltage Lockout Protection
- Over-Current Protection
- Over-Temperature Output Flag
- PWM Winding Current Regulation and Current Limiting
- ETSSOP16L, QFN3X3-16 Package

Applications

- POS Printers
- Video Security Camera
- Digital Still Cameras
- Battery Powered Toys

TCM8833CK Simplified Schematic

