


3-Phase Brushless DC Motor Driver 8-Pin SOP EP Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOP-8
Product Type:	Driver ICs
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	LTB



Images are for reference only

[Inquiry](#)

General Description

The MTD6501C is a 3-phase full-wave driver for brushless sensorless DC motors. They feature 180° sinusoidal drive, high torque output, and silent drive. Due to their adaptive features and wide power-supply range capabilities (2 to 14V) they are intended to cover a wide range of motor characteristics, while requiring no external tuning from the user. Speed control can be achieved through either power supply modulation or pulse-width-modulation (using the PWM digital input pin). Due to the compact packaging and minimum bill-of-material (power transistors incorporated, no Hall sensor, no external tuning), they are best suited for low-cost fan applications requiring high efficiency and low acoustic noise, such as CPU cooling fans. Frequency generator output is also included, enabling for precision speed control in closed-loop applications. The MTD6501C drivers include a lockup protection mode, which turns-off the output current when the motor is under lock condition, and an automatic recovery that enables the fan to run when the lock condition is removed. Motor over-current limitation, short-circuit protection, and thermal-shutdown protection are also included.

Recommended For You

MIC23150-4YMF-TR

Microchip Technology, Inc
8-UFDFN

MIC5332-SSYMF-TR

Microchip Technology, Inc
MLF-8

MIC94300YMF-TR

Microchip Technology, Inc
UDFN4

MIC23250-AAAYMF-TR

Microchip Technology, Inc
UDFN-12

MIC2095-2YMF-TR

Microchip Technology, Inc
UDFN

MIC2225-4MYMF

Microchip Technology, Inc
MLF-10

MIC2225-G4YMF-TR

Microchip Technology, Inc
UDFN2x2

MID6508-ADJE/JQ

Microchip Technology, Inc
16-UQFN

MIC94305YMF-TR

Microchip Technology, Inc
UDFN-6

MIC94305YMT-T5

Microchip Technology, Inc
BGA

MIC2225-G4YMT

Microchip Technology, Inc
UDFN2x2

MIC5365-3.3YMT-TZ

Microchip Technology, Inc
MLF-4

NX2147CMIR

Microchip Technology, Inc
16-VQFN

MIC94062YMT-TR

Microchip Technology, Inc
UDFN

MIC2225-40YMT-TR

Microchip Technology, Inc
UDFN2x2