

FAN8100N

Low Voltage Step Motor Driver

Table of Contents:			
Datasheet	Buy	Sample	
◦ General Description	◦ Product Status/Pricing /Packaging	◦ Support	◦ Engineering Connections
		◦ Qualification Support	◦ Features

General Description

[Back to Top](#)

The FAN8100N and FAN8100MTC are monolithic two channel DC motor drive IC designed for low voltage operated systems. They have dual H-bridge drivers, using NPN and vertical PNP power transistors with a low saturation voltage. Power packages with heat sinks endure high continuous output current. The high current and low saturation voltage feature make these devices suitable for DC motor applications such as toy cars. They also have a built-in thermal shutdown protection circuit with hysteresis.

Product Status/Pricing/Packaging

[Back to Top](#)

Product	Product status	Eco Status	Package type	Leads	Packing method	Package Drawing
FAN8100N	Not recommended for new designs	RoHS Compliant	DIP	12	RAIL	

Support

[Back to Top](#)

- [Knowledgebase - \(online Q&A\)](#)
- [Find a local sales office](#)
- [Product change notices \(PCN\)](#)
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Engineering Connections

[Back to Top](#)

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Qualification Support

[Back to Top](#)

- Customer qualification report for the [FAN8100N](#)

Features

[Back to Top](#)

- Two channel H-bridge drivers with built-in NPN and vertical-PNP power transistors
- Four functions for each channel - Forward/Reverse/Stop/Brake functions
- Special output pin for an RC car application - for a Turbo function for Ch.A (five-function RF receiver chip RX-2 interface)
- Low stand-by current (typ. 0.1uA)
- Wide supply voltage range (PVCC = 1.8V 9.0V) suitable for battery operated applications
- 3.3V and 5V micro-controller interface
- Low output saturation voltage (upper and lower total: typ. 0.15V @ 0.2A)
- High current outputs (max. 1.5A/Ch.)
- Parallel connection (Max Current: 3A)
- High thermal capability for high continuous output currents
- Built-in spark killing diodes
- Built-in a thermal shutdown (TSD) function with hysteresis
- Short circuit protected
- Temperature independent internal voltage reference

Typical Application

- General purpose dc motor driver
- Electronic toys - robots, RC cars
- Digital still camera (DSC) and film camera
- Home appliances and office equipment
- Precision instruments