

## Product Overview

### LA6583MC: Single-Phase Full-Wave BTL Fan Motor Driver

For complete documentation, see the data sheet.

The LA6583MC is a low-saturation BTL output linear driving motor driver for single-phase bipolar fan motors. It features quite, low power, high efficiency drive that suppresses reactive current. It is optimal for use in applications that require miniaturization and low noise, such as CPU cooling fan motors and 5 to 12V electronic game products.

### Features

- Single-phase full-wave linear drive with BTL output (gain resistance 1K-360K)
- Low-voltage operation possible, with wide operable voltage range (2.8 to 13.8V)
- Low saturation output (Upper + lower saturation voltage:  $V_{O\ sat} (total) = 1.1V_{typ}$ ,  $I_O = 200mA$ )
- Lock protection and auto return circuits built-in
- Lock protection signal output (L during rotation, H at stop; open collector output)
- FG output (rotation speed detection output: open collector output)
- Hall bias built-in ( $V_{HB} = 1.3V$ )
- Heat protection circuit (Design guarantee)
- Compact and high heat capacity package

### Applications

- CPU cooling fan motors

### End Products

- 5 to 12V electronic game products

### Part Electrical Specifications

Product	Compliance	Status	Phase	$V_M$ Min (V)	$V_M$ Max (V)	$V_{CC}$ Min (V)	$V_{CC}$ Max (V)	$I_O$ Max (A)	$I_O$ Peak Max (A)	Control Type	Package Type
LA6583MC-AH	Pb-free	Active	1	2.8	14	2.8	14	0.8		DC	SOIC-10 W / MFP-10SK
	Halide free										
LA6583MC-W-AH	Pb-free	Active	1	2.8	14	2.8	14	0.8		DC	SOIC-10 W / MFP-10SK
	Halide free										

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