Product Overview

LB1948MC: Motor Driver, Forward / Reverse, Low Saturation Voltage, 12 V

For complete documentation, see the data sheet.

The LB1948MC is a two-channel low saturation voltage forward/reverse motor driver IC. It is optimal for motor drive in 12V system products and can drive either two DC motors, one DC motor using parallel connection, or a two-phase bipolar stepping motor with 1-2 phase excitation mode drive.

Features

- 20 V max operating voltage
- Zero current drawn in standby mode
- Braking function
- Built-in spark killer diode
- Built-in thermal shutdown circuit
- Miniature package: MFP-10SK (6.2mm 5.0mm)
- Low saturation voltage: VO(sat) = 0.5V (typical) at IO = 400mA
- Supports parallel connection: IO max = 1.6A, VO(sat) = 0.6V (typical) at IO = 800mA

Benefits

- Good safety margin for driving 12V motors
- Saving energy
- Safety design
- Spark killer
- Thermal protection
- Small mounting space

Applications

- Consumer
- Industrial

End Products

- Refrigerator
- Thermal printers
- POS terminal
- Hot-water supplies
- Time Recorder

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	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)	Step Resolution	Control Type	Current Sense	Fault Detection	Package Type
LB1948MC-AH	0.864	Pb-free Halide free non AEC-Q and PPAP	Active	2.5	16	2.5	16		0.8	½	Parallel	None	Thermal	SOIC-10 W / MFP-10SK

For more information please contact your local sales support at www.onsemi.com.

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