



## Product Overview

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

For complete documentation, see the data sheet

#### Product Description

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:  $V_{O(sat)} = 0.5V$  (typical) at  $I_O = 400mA$
- Supports parallel connection:  $I_O \text{ max} = 1.6A$ ,  $V_{O(sat)} = 0.6V$  (typical) at  $I_O = 800mA$

#### 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	Compliance	Status	Type	$V_M$ Min (V)	$V_M$ Max (V)	$V_{CC}$ Min (V)	$V_{CC}$ Max (V)	$I_O$ Max (A)	$I_O$ Peak Max (A)	Step Reso- lution	Contr- ol Type	Feed- back Meth- od	Curre- nt Sens- e	Regu- lator Out- put	Fault Dete- ction	Flyba- ck Prote- ction	Pack- age Type
LB1948MC-AH	Pb-free Halide free	Active	Step- per/ Brus- h DC	2.5	20			0.8		$\frac{1}{2}$	Paral- lel		None	No	Ther- mal	Integ- rated Activ- e	SOIC- 10 W / MFP- 10SK
LB1948MC-BH	Pb-free Halide free	Active	Step- per/ Brus- h DC	2.5	20			0.8		$\frac{1}{2}$	Paral- lel		None	No	Ther- mal	Integ- rated Activ- e	SOIC- 10 W / MFP- 10SK
LB1948MC-ZH	Pb-free Halide free	Active	Step- per/ Brus- h DC	2.5	20			0.8		$\frac{1}{2}$	Paral- lel		None	No	Ther- mal	Integ- rated Activ- e	SOIC- 10 W / MFP- 10SK

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Created on: 10/11/2013