



## 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	Benefits
<ul style="list-style-type: none"> <li>20 V max operating voltage</li> <li>Zero current drawn in standby mode</li> <li>Braking function</li> <li>Built-in spark killer diode</li> <li>Built-in thermal shutdown circuit</li> <li>Miniature package: MFP-10SK (6.2mm 5.0mm)</li> <li>Low saturation voltage: <math>V_{O(sat)} = 0.5V</math> (typical) at <math>I_O = 400mA</math></li> <li>Supports parallel connection: <math>I_O max = 1.6A</math>, <math>V_{O(sat)} = 0.6V</math> (typical) at <math>I_O = 800mA</math></li> </ul>	<ul style="list-style-type: none"> <li>Good safety margin for driving 12V motors</li> <li>Saving energy</li> <li>Safety design</li> <li>Spark killer</li> <li>Thermal protection</li> <li>Small mounting space</li> </ul>

Applications	End Products
<ul style="list-style-type: none"> <li>Consumer</li> <li>Industrial</li> </ul>	<ul style="list-style-type: none"> <li>Refrigerator</li> <li>Thermal printers</li> <li>POS terminal</li> <li>Hot-water supplies</li> <li>Time Recorder</li> </ul>

#### 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	Cont rol Type	Feed back Meth- od	Curr- ent Sense	Reg- ulator Out- put	Fault Dete- ction	Fly- back Protec- tion	$R_{DS(on)}$ Typ ( $\Omega$ )	Pack- age Type
LB1948MC-AH	Pb-free Halide free	Active	Step per/ Brush DC	2.5	16	2.5	16		0.8	$\frac{1}{2}$	Paral- lel		Non- e		Ther- mal			SOI C-10 W / MFP - 10S K
LB1948MC-ZH	Pb-free Halide free	Active	Step per/ Brush DC	2.5	16	2.5	16		0.8	$\frac{1}{2}$	Paral- lel		Non- e		Ther- mal			SOI C-10 W / MFP - 10S K

For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com)

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