



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"> • 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: $I_O max = 1.6A$, $V_{O(sat)} = 0.6V$ (typical) at $I_O = 800mA$ | <ul style="list-style-type: none"> • Good safety margin for driving 12V motors • Saving energy • Safety design • Spark killer • Thermal protection • Small mounting space |

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

Part Electrical Specifications

| Product | 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 | Feedback Method | Current Sense | Regulator Output | Fault Detection | Flyback Protection | $R_{DS(ON)}$ Typ (Ω) | Package Type |
|-------------|------------------------|--------|---------------|---------------|------------------|------------------|---------------|--------------------|-----------------|--------------|-----------------|---------------|------------------|-----------------|--------------------|-------------------------------|----------------------|
| LB1948MC-AH | Pb-free Halide free | Active | 2.5 | 16 | 2.5 | 16 | | 0.8 | 1/2 | 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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