

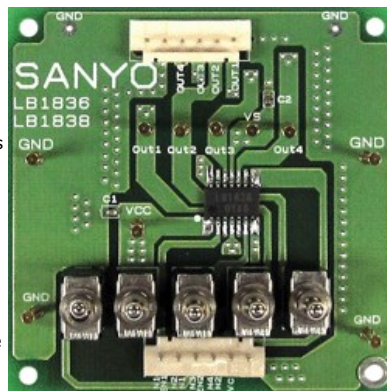


## LB1838MEVB: Bidirectional Motor Driver IC Evaluation Board

The LB1838M is 2-channel low-voltage, low saturation voltage type bidirectional motor driver IC that is optimal for use as 2-phase stepping motor driver in printers, floppy disk drives, and cameras and other portable equipment. The output circuits are of the bipolar type, with pnp transistors in the upper side and npn transistors in the lower side, and they achieve low saturation output and low power characteristics despite being provided in a miniature package.

The LB1838M can directly control a motor from signals from a microcontroller. The LB1838M is ideally suited for the stepping motor, two phase excitation, and 1-2 phase excitation drive.

The LB1838M includes a built-in thermal shutdown circuit so that IC scorching or burning is prevented in advance even if the IC outputs are shorted. Additionally, the MFP-14S miniature package used supports reduced-space mounting.



### Features and Applications

#### Features

- Low voltage operation (2.5V min)
- Low saturation voltage (upper transistor + lower transistor residual voltage: 0.40V at 400mA)
- Built-in through-current prevention circuit
- These Devices are Pb-Free, Halogen Free/BFR Free and RoHS Compliant
- Built-in spark killer diodes
- Built-in thermal shutdown circuit
- Compact package: MFP14S

### Evaluation/Development Tool Information

| Product                    | Status | Compliance | Short Description                              | Parts Used                    | Action  |
|----------------------------|--------|------------|--|-------------------------------|---|
| <a href="#">LB1838MEVB</a> | Active |            | Bidirectional Motor Driver IC Evaluation Board | <a href="#">LB1838M-TRM-E</a> | <a href="#">» Contact Local Sales Office</a><br><a href="#">» Inventory</a> |

### Technical Documents

| Type                       | Document Title                              | Document ID/Size                                       | Rev |
|----------------------------|---|--|-----|
| Eval Board: BOM            | LB1838MEVB Bill of Materials                | <a href="#">LB1838MEVB_BOM.PDF - 15 KB</a>             | 0   |
| Eval Board: Gerber         | LB1838MEVB Gerber Layout Files (Zip Format) | <a href="#">LB1838MEVB_GERBER.ZIP - 102.0 KB</a>       | 0   |
| Eval Board: Schematic      | LB1838MEVB Schematic                        | <a href="#">LB1838MEVB_SCHEMATIC.PDF - 132 KB</a>      | 0   |
| Eval Board: Test Procedure | LB1838MEVB Test Procedure                   | <a href="#">LB1838MEVB_TEST_PROCEDURE.PDF - 124 KB</a> | 1   |

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