

LB1863M, LB1869M



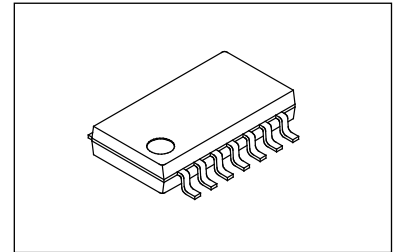
ON Semiconductor®

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Monolithic Digital IC Two-Phase Brushless Motor Driver

Overview

The LB1863M and LB1869M are 2-phase unipolar brushless motor drivers that are provided in a miniature flat package that contributes to end product miniaturization and supports automatic mounting. These products support the implementation of motor drive lock protection and automatic recovery circuits, and alarm specifications with a minimal number of external components.



SOIC14 W / MFP14S (225 mil)

Features and Functions

- Hall elements can be connected directly to the IC itself.
- 1.5-A output current output transistors built in
- Rotation detection function that provides a low-level output during motor drive and a high-level output when the motor is stopped
- Motor lock protection and automatic recovery functions built in
- Thermal shutdown circuit
- Switching noise can be reduced with an external ceramic capacitor.

Classification

System Voltage \ Package	MFP-14S
12V	LB1869M
24V	LB1863M

Note: The LB1869M and LB1863M are pin compatible so that the same printed circuit board can be used for both 12 V and 24 V products.

ORDERING INFORMATION

See detailed ordering and shipping information on page 7 of this data sheet.

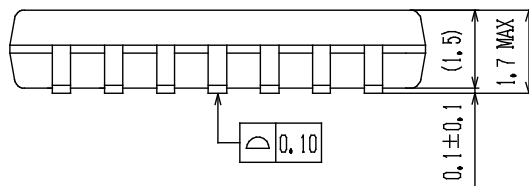
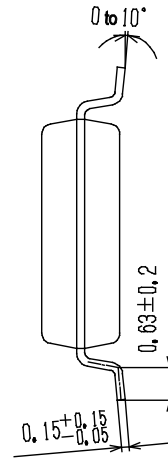
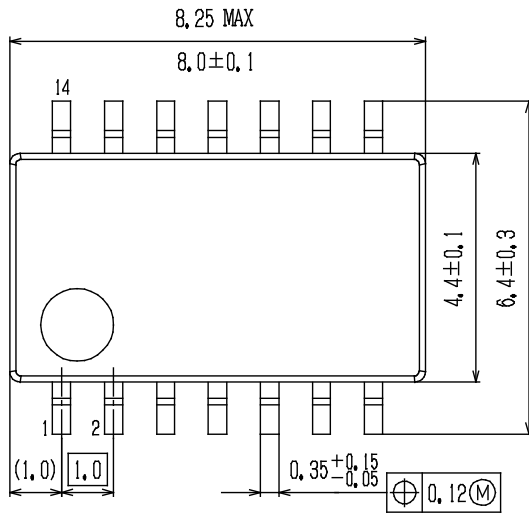
Package Dimensions

unit : mm

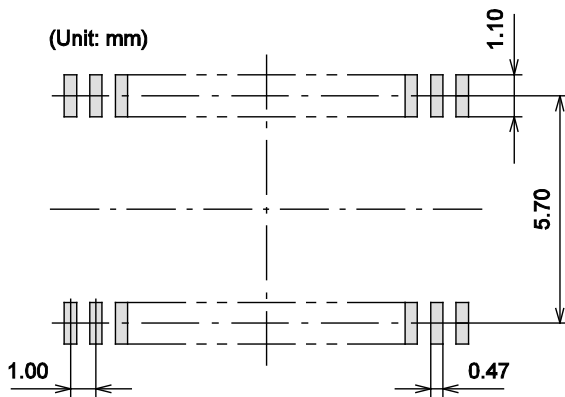
SOIC14 W / MFP14S (225 mil)

CASE 751CB

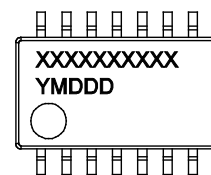
ISSUE A



SOLDERING FOOTPRINT*



GENERIC MARKING DIAGRAM*



XXXXX = Specific Device Code
 Y = Year
 M = Month
 DDD = Additional Traceability Data

NOTE: The measurements are not to guarantee but for reference only.

*For additional information on our Pb-Free strategy and soldering details, please download the ON Semiconductor Soldering and Mounting Techniques Reference Manual, SOLDERRM/D.

*This information is generic. Please refer to device data sheet for actual part marking. Pb-Free indicator, "G" or microdot "•", may or may not be present.

ORDERING INFORMATION

Device	Package	Wire bond	Shipping (Qty / Packing)
LB1863M-MPB-E	SOIC14 W / MFP14S (225 mil) (Pb-Free)	Au wire	60 / Fan-Fold
LB1863M-MPB-H	SOIC14 W / MFP14S (225 mil) (Pb-Free / Halogen Free)	Au wire	60 / Fan-Fold
LB1863M-TLM-E	SOIC14 W / MFP14S (225 mil) (Pb-Free)	Au wire	1000 / Tape & Reel
LB1863M-TLM-H	SOIC14 W / MFP14S (225 mil) (Pb-Free / Halogen Free)	Au wire	1000 / Tape & Reel
LB1863M-W-AH	SOIC14 W / MFP14S (225 mil) (Pb-Free / Halogen Free)	Cu wire	1000 / Tape & Reel
LB1869M * Discontinued	SOIC14 W / MFP14S (225 mil) (Pb-Free)	Au wire	- / -

† For information on tape and reel specifications, including part orientation and tape sizes, please refer to our Tape and Reel Packaging Specifications Brochure, BRD8011/D. http://www.onsemi.com/pub_link/Collateral/BRD8011-D.PDF

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