

## Product Overview

### LB1838M: Motor Driver, Low Saturation, Bidirectional, for Low Voltage Drive

For complete documentation, see the data sheet.

The LB1838M is a low-saturation two-channel bidirectional motor driver IC for use in low-voltage applications. The LB1838M is a bipolar stepper-motor driver IC that is ideal for use in printers, cameras and other portable devices.

#### Features

- Low voltage and wide operation (2.5V min)
- Low saturation voltage (upper transistor + lower transistor residual voltage: 0.40V at 400mA)
- Built-in through-current prevention circuit
- Separate logic power supply and motor power supply
- Built-in spark killer diodes
- Built-in thermal shutdown circuit

#### Benefits

- Battery drive

#### Applications

- Stepper Motors
- Industrial

#### End Products

- Cameras
- Document Scanner
- PoE Point of Sales Terminal
- PoE Security Camera

### Part Electrical Specifications

Product	Pricing (\$/Unit)	Compliance	Status	V <sub>M</sub> Min (V)	V <sub>M</sub> Max (V)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Max (A)	I <sub>O</sub> Peak Max (A)	Step Resolution	Control Type	Current Sense	Fault Detection	Package Type
LB1838M-TLM-E	0.8666	Pb-free non AEC-Q and PPAP	Active	1.8	9	2.5	9	1		1/2	Parallel	None	Thermal	SOIC-14W / MFP-14S
LB1838M-TRM-E	0.8666	Pb-free non AEC-Q and PPAP	Active	1.8	9	2.5	9	1		1	Parallel	None	Thermal	SOIC-14W / MFP-14S

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

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