Product Overview

LB1930MC: Motor Driver, Bidirectional, Low Voltage, Low Saturation

For complete documentation, see the data sheet.

The LB1930MC is single-channel forward/reverse DC brush motor driver. This device is optimal for CD, DVD and Blue Ray Disk player loading motors. And it is possible to use it for others as a general-purpose product.

Features

- The LB1930MC features the wide operating voltage range of 2.2 to 10.8V and the low standby current drain of 0.1A, and therefore can easily be used in battery operated systems.
- To minimize through currents, the LB1930MC internal logic passes through an internal standby state when switched by the input signals between forward/reverse and brake, or between forward and reverse.
- If the IC chip exceeds 180C due to an output short causing a large current flow, the built-in thermal protection circuit suppresses the drive current to prevent fires or destruction of the IC.
- Zero power consumption in standby mode
- The low saturation voltage reduces IC internal heating and allows a high voltage to be applied to the motor. Thus this device can be used even in environments with a high operating ambient temperature.
- There are no constraints on the relationship between the input voltage and the supply voltage. For example, the LB1930MC can be used with VCC = 3V, and VIN = 5V

Benefits

- Low input voltage devices available 2V
- Rugged operation
- Thermal protection
- Low Consumption

Applications

- Industrial
- Consumer
- Portable & Wireless

End Products

- Digital Still Camera
- CD, DVD and Blue Ray Disk player loading motors.
- Thermal printers, portable printers, scanner
- Toy, Battery operate devices

Part Electrical Specifications

Product	Pricing ($/Unit)	Compliance	Status	V_M Min (V)	V_M Max (V)	V_{CC} Min (V)	V_{CC} Max (V)	I_O Min (A)	I_O Peak Max (A)	Control Type	Current Sense	Package Type
LB1930MC-AH	0.5467	Pb-free Halide free	Active	2.2	10.8	2.2	10.8		1	Parallel	None	SOIC-10 NB

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