

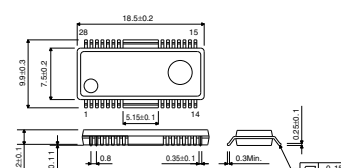
Spindle motor driver IC for CD-ROM/RW

BD6665FM

●Description

The BD6665FM has achieved high-efficiency and low power consumption due to the adoption of MOSFET output and direct PWM drive. Power save circuit, current limit circuit, FG three-phase synthesis output, hall bias, reverse protection circuit, short brake SW, and rotation direction detection terminal are incorporated. The result is a multi-function and high-performance IC.

●Dimension (Units : mm)



●Features

- 1) Direct PWM drive
- 2) Built-in power save circuit
- 3) Built-in current limit circuit
- 4) Built-in FG three-phase synthesis output
- 5) Built-in hall bias
- 6) Built-in reverse protection circuit
- 7) Low power consumption due to MOSFET output
- 8) Built-in short brake SW
- 9) Built-in rotation direction detection terminal

HSOP-M28

●Applications

CD-ROM/RW

●Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Limits	Unit
Applied voltage (5V for power supply)	V _{CC}	7	V
Applied voltage (for motor supply)	V _M	15	V
Power dissipation	P _d	2200 *1	mW
Operating temperature range	T _{opr}	-20 ~ +75	°C
Storage temperature range	T _{stg}	-55 ~ +150 *2	°C
Output current	I _{OMAX}	3000 *2	mA

*1 Mounted on a glass epoxy board (70mm×70mm×1.6mm)

*1 Derating:17.6mW/°C for operation above Ta=25°C.

*2 Do not exceed Pd, ASO and Tj=150°C.

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