

实现小型、高效率

Compact • High Efficiency

ROHM
SEMICONDUCTOR

车载电机用H桥驱动器IC

Automotive H-Bridge Drive ICs

BD169xx Series

特点

- **小型封装**
Compact
- **低功耗**
Low power consumption
- **MOSFET 驱动, 效率更高**
MOSFET drive ensures high efficiency
- **可实现异常ch检测(BD16938/39EFV -C)**
Abnormal channel detection (BD16938/39EFV-C)
- **恒定电流PWM 控制, 抑制浪涌电流 (BD16912EFV -C)**
Suppress rush current by constant current PWM control (BD16912EFV-C)

应用

- **车载用后视镜调整用驱动器**
Mirror adjustment
- **车载用空调风门用驱动器**
Air Conditioner
- **车载平视显示器驱动器**
Head up display

产品阵容

Lineup

Part No.	Channel	Operating Temperature (Max. Junction) (°C)	Max. Input Voltage (Operating) (V)	Over Voltage Protection (Typ.) (V)	Max. Output Current (A)	Over Current Protection (Max.) (A)	Input I/F
BD16910EFV-M	Full-bridge 1ch	-40 to +110 (150)	60 (8 to 16)	30	1	2.8	High / Low
New BD16912EFV-C	Full-bridge 1ch	-40 to +125 (150)	40 (6 to 18)	33	3	8.0	High / Low
BD16922EFV-M	Full-bridge 2ch	-40 to +110 (150)	60 (8 to 36)	50	1	1.55	High / Low
BD16933EFV-C	Half-bridge 3ch	-40 to +125 (150)	60 (7 to 36)	50	1	1.95	SPI
New BD16939EFV-C	Half-bridge 6ch	-40 to +125 (150)	40 (6.3 to 32)	36 or 20	1	2.05	SPI
New BD16938EFV-C	Half-bridge 8ch	-40 to +125 (150)	40 (6.3 to 32)	36 or 20	1	2.05	SPI

Part No.	Protection Functions				DIAG Detections					Status	Package (mm)
	Over Voltage Protection	Under Voltage Protection	Over Current Protection	Thermal Shut Down Protection	Over/Under Voltage Detection	Over Current Detection	Thermal Shut Down Detection	Open Current Detection	Thermal Warning Detection		
BD16910EFV-M	✓		✓	✓		✓				MP	HTSSOP-B20 (6.5×6.4×1.0)
New BD16912EFV-C	✓	✓	✓	✓	✓	✓	✓		✓	CS	HTSSOP-B20 (6.5×6.4×1.0)
BD16922EFV-M	✓		✓	✓		✓				MP	HTSSOP-B24 (7.8×7.6×1.0)
BD16933EFV-C	✓	✓	✓	✓	✓	✓	✓	✓		CS	HTSSOP-B20 (6.5×6.4×1.0)
New BD16939EFV-C	✓	✓	✓	✓	✓	✓	✓	✓	✓	CS	HTSSOP-B28 (9.7×6.4×1.0)
New BD16938EFV-C	✓	✓	✓	✓	✓	✓	✓	✓	✓	MP	HTSSOP-B28 (9.7×6.4×1.0)

应用电路例

Application Circuit Example

