





LV8968BBUWR2G

BLDC

LV8968BB 3 BLDC/PMSM BEMF () FET AEC-Q100 6 400 mA () FET FET FET ISO26262 3 SPI OTP 175°C WAKE PWM LV8968BB

- Full Drive Power from 8 V to 28 V Supply Voltage with Transient Tolerance from 4.5 V to 40 V
- Extended Voltage Range from 6 V to 33 V Using Logic Level Mode
- Up to 30 kHz Motor PWM with Individual Six Gate Control or Drive-3 Mode with Integrated Programmable Dead Time
- Extensive System Protection Features Including: Drain-Source Short Detection for External FET Overcurrent Shutoff Low Gate Voltage Warning Overtemperature Warning and Shutoff Over / Under Voltage Protection
- Safety Design ASIL B
- Nonvolatile (OTP) Memory for Storing Critical System Parameters
- 5 V / 3.3 V Linear Regulator for External Loads up to 50 mA
- SPI Interface for Parameter Setup and Diagnostic Access, Dynamic Access to Dead Time, Amplifier Gain, and Short Circuit Levels
- Wide Voltage Enable Line and PWM Interface
- Integrated Window Watchdog Timer Function
For more features, see the data sheet
- Automotive suspension system, park brake actuator, transmission pump, steering pump, vacuum pump, battery pack cooling, sliding door, lift gate, ...
- Robot and cobot, automated valve, ...
- e-step, drone, ...
- oven, washing machine, boiler, automated shutters, ...
- compatible with automotive 12V systems and 24V industrial and light e-mobility applications
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- low audible noise, versatile and robust operation
- safe response in any condition
- complete safety package is available
- flexible and safe start-up and fallback values
- Automotive FuSa (Functional Safety) related actuators, pumps and fans
- industrial equipment, factory and warehouse automation, ...
- light e-mobility and motive power
- white goods, domotica and home automation

	Pricing (\$/Unit)	Compliance	Status	Phase	V _M Min (V)	V _M Max (V)	V _{CC} Min (V)	V _{CC} Max (V)	I _O Max (A)	I _O Peak Max (A)	Control Type	Package Type
LV8968BBUWR2G	4.6537	   	Active	3	6	33			0.05	0.8		SQFP-48K

INTERNAL EQUIVALENT BLOCK DIAGRAM AND APPLICATION CIRCUIT

