power integrations
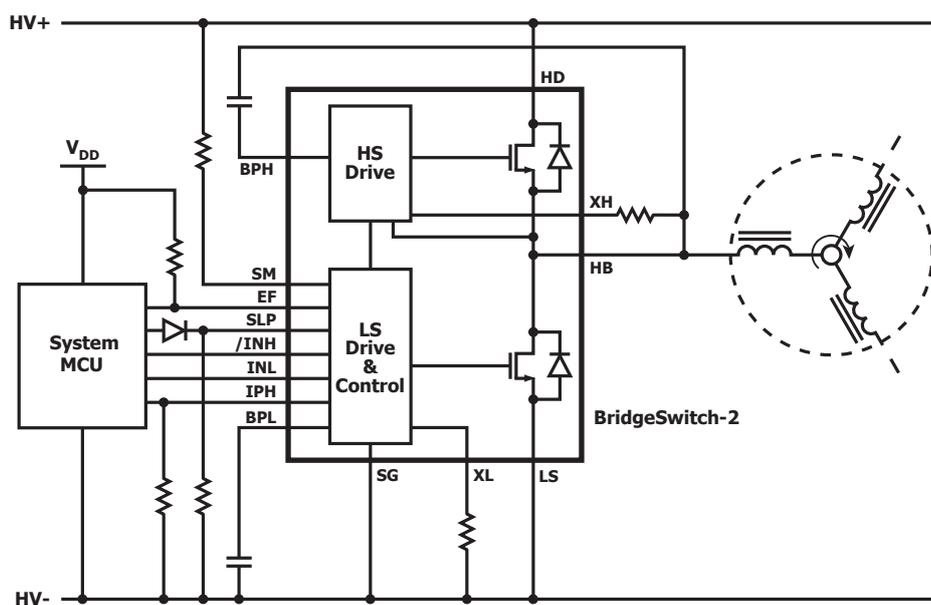
BridgeSwitch™-2

- Fully integrated half-bridge motor driver
- Up to 99.2% efficient — no heatsinks
- Three-phase inverter has <10 mW sleep-mode power consumption when self supplied
- Selectable hysteretic or latching over temperature and over-current with simple Error Flag (EF) reporting
- Integrated lossless phase current output
- Fully compatible with MotorXpert™ Suite design software

High-Voltage, Self-Powered, Half-Bridge Motor Driver with Integrated Device Protection and System Monitoring
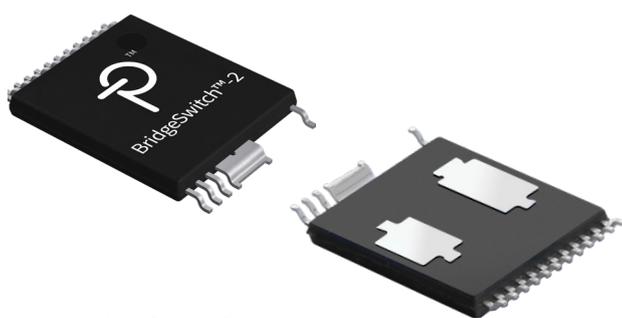

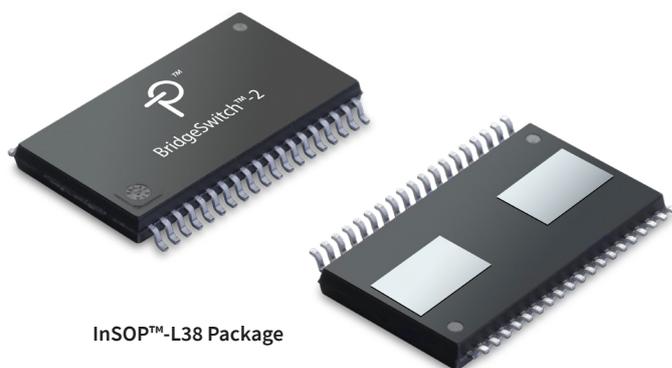PI-9532-052824

Applications

- Single and multi-phase high-voltage PM and BLDC motor drives in:
  - HVAC fans
  - Refrigerator compressor
  - Fluid pumps
  - Gas boiler combustion fans
  - Washing machine drums and pumps
  - Ceiling fans
  - Industrial pumps and motors

Product Family

Part Number	FREDFET DC Output Current	Continuous Phase RMS Current
BRD2x60C	1.0 A	0.22 A
BRD2x61C	1.7 A	0.50 A
BRD2x63C	3.0 A	0.75 A
BRD2x65C	5.5 A	1.00 A
BRD2x67C	11.5 A	1.33 A
BRD2x69WB	22.0 A	2.00 A
BRD2x69WT	22.0 A	2.80 A

InSOP™-24C Package

InSOP™-L38 Package

Design Support

Data Sheet	BridgeSwitch-2 data sheet (www.power.com/bridgeswitch-2-data-sheet)
Design Example	70 W single-phase inverter using BridgeSwitch-2 for fan application (RDK-872)(www.power.com/rdk-872)
Design Example	150 W three-phase, shuntless FOC design with Integrated phase current (IPH) BridgeSwitch-2 (RDR-974)(www.power.com/rdr-974)
Design Tool	MotorXpert™ Suite software (www.power.com/motorxpert-suite)

power integrations