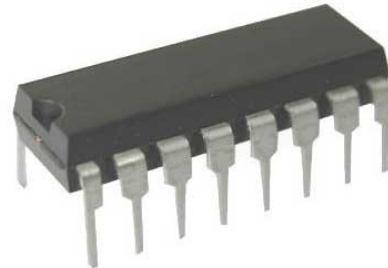


55V, 1A Peak Current H-Bridge FET Driver

Manufacturers	Renesas Technology Corp
Package/Case	DIP16
Product Type	Power Management ICs
RoHS	
Lifecycle	



Images are for reference only

Please submit RFQ for ISL83202IPZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ISL83202 is a medium-frequency H-Bridge FET driver capable of 1A (typ) of peak drive current that is designed to drive high- and low-side N-Channel MOSFETs in medium voltage applications. Optimized for PWM motor control and uninterruptible power supply systems, the ISL83202 enables simple and flexible bridge-based design. With typical input-to-output propagation delays as low as 25ns and with a user programmable dead-time range of 0.1 μ s to 4.5 μ s, the ISL83202 is ideal for switching frequencies up to 200kHz. The dead-time of the ISL83202 is programmable via a single resistor. The ISL83202's four independent driver control inputs (ALI, AHL, BLI, and BHI) allow driving of every possible switch combination except those that would cause a shoot-through condition. A global disable input, DIS, overrides input control and causes the ISL83202 to refresh the bootstrap capacitor when pulled low. Integrated undervoltage protection and shoot-through protection ensure reliable system operation. The ISL83202 is available in compact 16 Ld SOIC and 16 Ld PDIP packages and operates over the range of -55°C to +125°C.

Features

Independently Drives 4 N-Channel FETs in Half Bridge or Full Bridge Configurations

Bootstrap Supply Max Voltage: 70VDC

Drives a 1000pF Load in Free Air at +50°C with Rise and Fall Times of 15ns (typ)

User-Programmable Dead Time from 0.1 to 4.5µs

DIS (Disable) Overrides Input Control and Refreshes Bootstrap Capacitor when Pulled Low

Input Logic Thresholds Compatible with 5V to 15V Logic Levels

Shoot-Through Protection

Undervoltage Protection

Pb-Free Plus Anneal Available (RoHS Compliant)

Related Products



[ISL6262ACRZ](#)

Renesas Technology Corp
QFN-48



[ISL6294IRZ-T](#)

Renesas Technology Corp
QFN-8



[ISL21080CIH315Z-TK](#)

Renesas Technology Corp
SOT-23-3



[ISL6506BCBZ](#)

Renesas Technology Corp
SOP-8



[ISL6377HRZ-T](#)

Renesas Technology Corp
QFN-48



[ISL62771HRTZ-T](#)

Renesas Technology Corp
40-WFQFN Exposed Pad



[ISL62771HRTZ](#)

Renesas Technology Corp
QFN40



[ISL95808HRZ-T](#)

Renesas Technology Corp
DFN-8