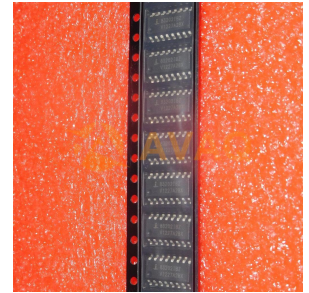


Driver 1A 4-OUT High and Low Side Full Brdg/Half Brdg/H Brdg Inv/Non-Inv Automotive 16-Pin SOIC N Tube



Images are for reference only

[Inquiry](#)

Manufacturer: [Renesas Technology Corp](#)

Package/Case: SOP16

Product Type: Drivers

RoHS: RoHS Compliant/Lead free 

Lifecycle: Active

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, AHI, 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.

Key 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 4.5 μ s

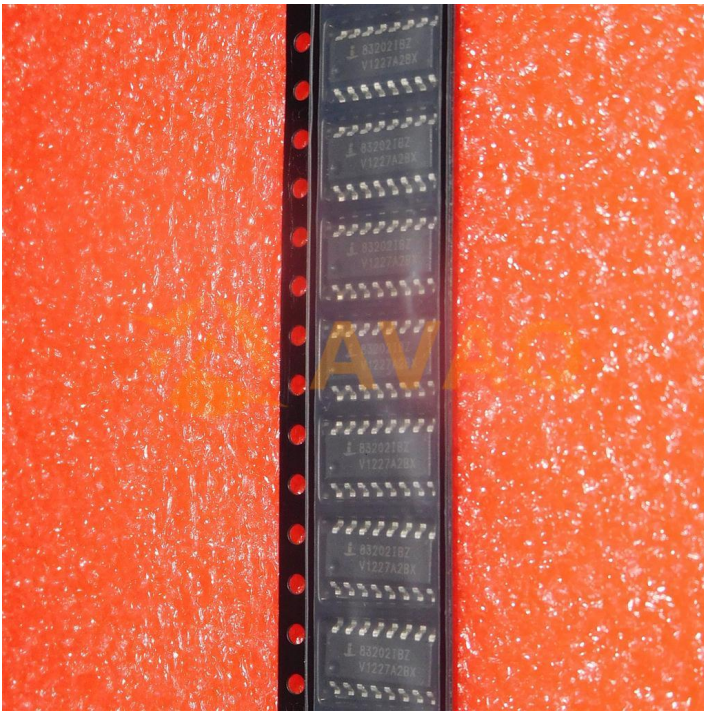
DIS (Disable) Overrides Input Control and Refreshes Bootstrap Capacitor when Pulled Low

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

Shoot-Through Protection

Undervoltage Protection

Pb-Free Plus Anneal Available (RoHS Compliant)



Recommended For You

ISL9492ERZ

Renesas Technology Corp

QFN

ISL6520ACBZ-T

Renesas Technology Corp

SOP8

ISL62883CHRTZ

Renesas Technology Corp

QFN

ISL95836HRTZ-T

Renesas Technology Corp

QFN40

ISL95837HRZ-T

Renesas Technology Corp

QFN40

ISL95837HRZ

Renesas Technology Corp

QFN40

ISL9301HRZ

Renesas Technology Corp

DFN10

ISL95835HRZ

Renesas Technology Corp

QFN

ISL95812HRZ

Renesas Technology Corp

QFN

ISL95870HRUZ-T

Renesas Technology Corp

QFN16

ISL65211BZ

Renesas Technology Corp

SOP16

ISL62882CHRTZ

Renesas Technology Corp

QFN

ISL95870BIRZ-T

Renesas Technology Corp

QFN20

ISL78214ARZ

Renesas Technology Corp

QFN

ISL88739HRZ

Renesas Technology Corp

QFN