

HIP2100IBZ LEAD-FREE VERSION, 100V HALF BRIDGE DRIVER HT SUSA
CODE:8542390000

Manufacturers	Renesas Technology Corp
Package/Case	SOIC-8
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for HIP2100IBZ or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The HIP2100 is a high frequency, 100V Half Bridge N-Channel power MOSFET driver IC. The low-side and high-side gate drivers are independently controlled and matched to 8ns. This gives the user maximum flexibility in dead-time selection and driver protocol. Undervoltage protection on both the low-side and high-side supplies force the outputs low. An on-chip diode eliminates the discrete diode required with other driver ICs. A new level-shifter topology yields the low-power benefits of pulsed operation with the safety of DC operation. Unlike some competitors, the high-side output returns to its correct state after a momentary undervoltage of the high-side supply.

Features

Drives N-Channel MOSFET Half Bridge

SOIC, EPSOIC, and QFN Package Options

SOIC and EPSOIC Packages Compliant with 100V Conductor Spacing Guidelines of IPC-2221

Pb-Free (RoHS Compliant)

Bootstrap Supply Max Voltage to $114V_{DC}$

On-Chip 1Ω Bootstrap Diode

Fast Propagation Times for Multi-MHz Circuits

Drives 1000pF Load with Rise and Fall Times Typ 10ns

CMOS Input Thresholds for Improved Noise Immunity

Independent Inputs for Non-Half Bridge Topologies

No Start-Up Problems

Outputs Unaffected by Supply Glitches, HS Ringing Below Ground, or HS Slewing at High dv/dt

Low Power Consumption

Wide Supply Range

Supply Undervoltage Protection

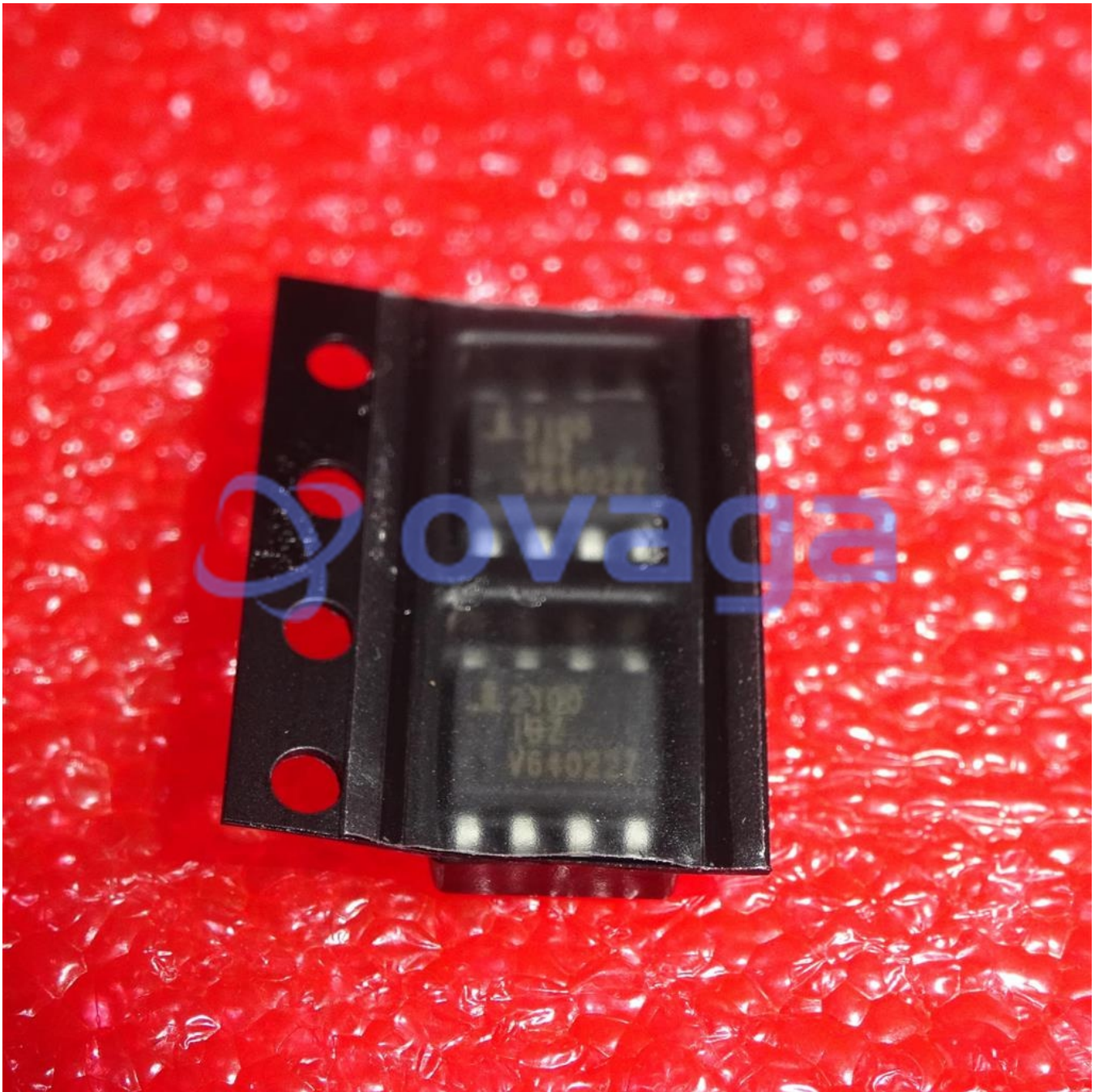
3Ω Driver Output Resistance

QFN Package:

Compliant to JEDEC PUB95 MO-220 QFN - Quad Flat No Leads - Package Outline

Near Chip Scale Package Footprint, which Improves PCB Efficiency and has a Thinner Profile





Related Products



[HIP4082IBZT](#)

Renesas Technology Corp
SOIC-16



[HIP4080AIBZT](#)

Renesas Technology Corp
SOIC-20



[HIP4086ABZ](#)

Renesas Technology Corp
SOIC-24



[HIP4086AB](#)

Renesas Technology Corp
SOIC-24



[HIP4081AIPZ](#)

Renesas Technology Corp
PDIP-20



[HIP4080AIB](#)

Renesas Technology Corp
SOP-20



[HIP2101BZT](#)

Renesas Technology Corp
SOIC-8



[HIP4080AIP](#)

Renesas Technology Corp
DIP-20