

100V/2A Peak High-Frequency Half Bridge Driver with TTL Logic Inputs; Temperature Range: -40°C to 85°C; Package: 8-SOIC T&R

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 HIP2101IBZT or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The HIP2101 is a high frequency, 100V Half Bridge N-Channel power MOSFET driver IC. It is equivalent to the HIP2100 with the added advantage of full TTL/CMOS compatible logic input pins. The low-side and high-side gate drivers are independently controlled and matched to 13ns. This gives users total control over dead time for specific power circuit topologies. 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, QFN and DFN Package Options

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

Pb-free Product Available (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

TTL/CMOS Input Thresholds Increase Flexibility

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 Output Driver Resistance

QFN/DFN 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



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Renesas Technology Corp
SOIC-20



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