



HIP2101IR4 Information



For Reference Only

Part Number HIP2101IR4

Manufacturer Renesas Electronics America
Category Integrated Circuits (ICs)

PMIC - Gate Drivers

Description IC DRVR HALF BRIDGE 100V 12-DFN **Package** 12-VFDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

Website: https://www.heisener.com E-mail: salesdept@heisener.com



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HIP2101IR4 Specifications

Manufacturer Part NumberHIP2101IR4ManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)PACKage12-VFDFN Exposed PadSeries-Driven ConfigurationHalf-BridgeChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply9 V ~ 14 VLogic Voltage - VIL, VIH0.8V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case12-VFDFN Exposed PadSupplier Device Package12-DFN (4x4)		
Category Integrated Circuits (ICs) PMIC - Gate Drivers Package 12-VFDFN Exposed Pad Series - Driven Configuration Half-Bridge Channel Type Independent Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply Voltage - VIL, VIH 0.8V, 2.2V Current - Peak Output (Source, Sink) 1nput Type Non-Inverting High Side Voltage - Max (Bootstrap) 114V Rise / Fall Time (Typ) Operating Temperature 1-55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package	Manufacturer Part Number	HIP2101IR4
Package 12-VFDFN Exposed Pad Series - Driven Configuration Half-Bridge Channel Type Independent Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 9 V ~ 14 V Logic Voltage - VIL, VIH 0.8V, 2.2V Current - Peak Output (Source, Sink) 2A, 2A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 114V Rise / Fall Time (Typ) 10ns, 10ns Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package 12-DFN (4x4)	Manufacturer	Renesas Electronics America
Package12-VFDFN Exposed PadSeries-Driven ConfigurationHalf-BridgeChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply9 V ~ 14 VLogic Voltage - VIL, VIH0.8V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case12-VFDFN Exposed PadSupplier Device Package12-DFN (4x4)	Category	Integrated Circuits (ICs)
Series-Driven ConfigurationHalf-BridgeChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply9 V ~ 14 VLogic Voltage - VIL, VIH0.8V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case12-VFDFN Exposed PadSupplier Device Package12-DFN (4x4)		PMIC - Gate Drivers
Driven Configuration Channel Type Independent Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply Logic Voltage - VIL, VIH Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package	Package	12-VFDFN Exposed Pad
Channel Type Independent Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 9 V ~ 14 V Logic Voltage - VIL, VIH 0.8V, 2.2V Current - Peak Output (Source, Sink) 2A, 2A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 114V Rise / Fall Time (Typ) 10ns, 10ns Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package 12-DFN (4x4)	Series	-
Number of Drivers Gate Type N-Channel MOSFET Voltage - Supply 9 V ~ 14 V Logic Voltage - VIL, VIH 0.8V, 2.2V Current - Peak Output (Source, Sink) 1nput Type Non-Inverting High Side Voltage - Max (Bootstrap) 114V Rise / Fall Time (Typ) 10ns, 10ns Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package	Driven Configuration	Half-Bridge
Gate TypeN-Channel MOSFETVoltage - Supply9 V ~ 14 VLogic Voltage - VIL, VIH0.8V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case12-VFDFN Exposed PadSupplier Device Package12-DFN (4x4)	Channel Type	Independent
Voltage - Supply Logic Voltage - VIL, VIH 0.8V, 2.2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package	Number of Drivers	2
Logic Voltage - VIL, VIH0.8V, 2.2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)114VRise / Fall Time (Typ)10ns, 10nsOperating Temperature-55°C ~ 150°C (TJ)Mounting TypeSurface MountPackage / Case12-VFDFN Exposed PadSupplier Device Package12-DFN (4x4)	Gate Type	N-Channel MOSFET
Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package	Voltage - Supply	9 V ~ 14 V
Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 10ns, 10ns Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package	Logic Voltage - VIL, VIH	0.8V, 2.2V
High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package	Current - Peak Output (Source, Sink)	2A, 2A
Rise / Fall Time (Typ) Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package 12-DFN (4x4)	Input Type	Non-Inverting
Operating Temperature -55°C ~ 150°C (TJ) Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package 12-DFN (4x4)	High Side Voltage - Max (Bootstrap)	114V
Mounting Type Surface Mount Package / Case 12-VFDFN Exposed Pad Supplier Device Package 12-DFN (4x4)	Rise / Fall Time (Typ)	10ns, 10ns
Package / Case 12-VFDFN Exposed Pad Supplier Device Package 12-DFN (4x4)	Operating Temperature	-55°C ~ 150°C (TJ)
Supplier Device Package 12-DFN (4x4)	Mounting Type	Surface Mount
	Package / Case	12-VFDFN Exposed Pad
Report errors?	Supplier Device Package	12-DFN (4x4)
		Report errors?

HIP2101IR4 Guarantees



Quality Guarantees

We provide 90 days warranty. *

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Service Guarantees

We guarantee 100% customer satisfaction.

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HIP2101IR4 Shipping Methods













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