



ISL6609IRZ Information



For Reference Only

Part Number ISL6609IRZ
Manufacturer Intersil

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description IC MOSFET DRVR SYNC BUCK 8-QFN

Package 8-VQFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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



Request a Quote

Certified Quality

Heisener's commitment to quality has shaped our processes for sourcing, testing, shipping, and every step in between. This foundation underlies each component we sell.









ISL6609IRZ Specifications

Manufacturer Part NumberISL6609IRZManufacturerIntersilCategoryIntegrated Circuits (ICs)Package8-VQFN Exposed PadSeries-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply4.5 V ~ 5.5 VLogic Voltage - VIL, VIHIV, 2VCurrent - Peak Output (Source, Sink)-, 4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)36VRise / Fall Time (Typ)8ns, 8nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-VQFN Exposed PadSurplier Davice Package9, QFN (333)		
Category Integrated Circuits (ICs) PMIC - Gate Drivers Package 8-VQFN Exposed Pad Series - Driven Configuration Half-Bridge Channel Type Synchronous Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 5.5 V Logic Voltage - VIL, VIH 1V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature A0°C ~ 125°C (TJ) Mounting Type Brickage / Case 8-VQFN Exposed Pad	Manufacturer Part Number	ISL6609IRZ
PACKAGE Package 8-VQFN Exposed Pad Series - Driven Configuration Half-Bridge Channel Type Synchronous Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 5.5 V Logic Voltage - VIL, VIH 1V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature Package / Case PMIC - Gate Drivers 8-VQFN Exposed Pad	Manufacturer	Intersil
Package 8-VQFN Exposed Pad Series - Driven Configuration Half-Bridge Channel Type Synchronous Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 5.5 V Logic Voltage - VIL, VIH 1V, 2V Current - Peak Output (Source, Sink) -, 4A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 36V Rise / Fall Time (Typ) 8ns, 8ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad	Category	Integrated Circuits (ICs)
Series - Driven Configuration Half-Bridge Channel Type Synchronous Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 5.5 V Logic Voltage - VIL, VIH 1V, 2V Current - Peak Output (Source, Sink) -, 4A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 36V Rise / Fall Time (Typ) 8ns, 8ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad		PMIC - Gate Drivers
Driven Configuration Channel Type Synchronous Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 5.5 V Logic Voltage - VIL, VIH 1V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Surface Mount Package / Case 8-VQFN Exposed Pad	Package	8-VQFN Exposed Pad
Channel Type Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 5.5 V Logic Voltage - VIL, VIH 1V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case Synchronous Synchronous Synchronous An A Synchronous 1 2 A.5 V ~ 5.5 V A.5 V ~ 5.5 V Inverting Non-Inverting Non-Inverting Selv Surface Mount Surface Mount Package / Case	Series	-
Number of Drivers Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 5.5 V Logic Voltage - VIL, VIH 1V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Surface Mount Package / Case 8-VQFN Exposed Pad	Driven Configuration	Half-Bridge
Gate TypeN-Channel MOSFETVoltage - Supply4.5 V ~ 5.5 VLogic Voltage - VIL, VIH1V, 2VCurrent - Peak Output (Source, Sink)-, 4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)36VRise / Fall Time (Typ)8ns, 8nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-VQFN Exposed Pad	Channel Type	Synchronous
Voltage - Supply Logic Voltage - VIL, VIH 1V, 2V Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Surface Mount Package / Case 4.5 V ~ 5.5 V 1V, 2V A.4 Non-Inverting Sov Non-Inverting A6V Surface Mount Surface Mount 8-VQFN Exposed Pad	Number of Drivers	2
Logic Voltage - VIL, VIH1V, 2VCurrent - Peak Output (Source, Sink)-, 4AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)36VRise / Fall Time (Typ)8ns, 8nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-VQFN Exposed Pad	Gate Type	N-Channel MOSFET
Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Surface Mount Package / Case -, 4A Non-Inverting Solv Ron, 8ns -40°C ~ 125°C (TJ) Surface Mount 8-VQFN Exposed Pad	Voltage - Supply	4.5 V ~ 5.5 V
Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 8ns, 8ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad	Logic Voltage - VIL, VIH	1V, 2V
High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 8ns, 8ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad	Current - Peak Output (Source, Sink)	-, 4A
Rise / Fall Time (Typ) 8ns, 8ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad	Input Type	Non-Inverting
Operating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-VQFN Exposed Pad	High Side Voltage - Max (Bootstrap)	36V
Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad	Rise / Fall Time (Typ)	8ns, 8ns
Package / Case 8-VQFN Exposed Pad	Operating Temperature	-40°C ~ 125°C (TJ)
	Mounting Type	Surface Mount
Supplier Davice Package 8 OFN (3v3)	Package / Case	8-VQFN Exposed Pad
Supplier Device Lackage 6-QITV (3X3)	Supplier Device Package	8-QFN (3x3)
Report errors?		Report errors?

ISL6609IRZ Guarantees



Quality Guarantees

We provide 90 days warranty. *

If the items you received were not in perfect quality, we would be responsible for your refund or replacement, but the items must be returned in their original condition.



Service Guarantees

We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

ISL6609IRZ Payment Methods





















ISL6609IRZ Shipping Methods













If you have any question about ISL6609IRZ, please do not hesitate to contact us!

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