



ISL6609IRZ-T Information

www.harsener.com

For Reference Only

Part Number ISL6609IRZ-T

Manufacturer Renesas Electronics America

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-T Specifications

Manufacturer Part Number Manufacturer Renesas Electronics America 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 High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Sons, 8ns Operating Temperature Package / Case Supplier Device Package Paces of Package Paces of Package Package Paces of Package Pace		
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) Sns, 8ns Operating Temperature A0°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8 - VQFN Exposed Pad Supplier Device Package	Manufacturer Part Number	ISL6609IRZ-T
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 Supplier Device Package 8-QFN (3x3)	Manufacturer	Renesas Electronics America
Package8-VQFN Exposed PadSeries-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers2Gate 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 PadSupplier Device Package8-QFN (3x3)	Category	Integrated Circuits (ICs)
Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers2Gate 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 PadSupplier Device Package8-QFN (3x3)		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) Sns, 8ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package	Package	8-VQFN Exposed Pad
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 Supplier Device Package 8-QFN (3x3)	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) Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package	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 PadSupplier Device Package8-QFN (3x3)	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) Soperating Temperature Operating Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package	Number of Drivers	2
Logic Voltage - VIL, VIH Current - Peak Output (Source, Sink) Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Surface Mount Mounting Type Surface Mount Package / Case Supplier Device Package	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 -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package	Voltage - Supply	4.5 V ~ 5.5 V
Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package	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 Supplier Device Package 8-QFN (3x3)	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 Supplier Device Package 8-QFN (3x3)	Input Type	Non-Inverting
Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package 8-QFN (3x3)	High Side Voltage - Max (Bootstrap)	36V
Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package 8-QFN (3x3)	Rise / Fall Time (Typ)	8ns, 8ns
Package / Case 8-VQFN Exposed Pad Supplier Device Package 8-QFN (3x3)	Operating Temperature	-40°C ~ 125°C (TJ)
Supplier Device Package 8-QFN (3x3)	Mounting Type	Surface Mount
	Package / Case	8-VQFN Exposed Pad
Poport arrors?	Supplier Device Package	8-QFN (3x3)
Report errors?		Report errors?

ISL6609IRZ-T 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-T Payment Methods



















ISL6609IRZ-T Shipping Methods













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

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