



## **ISL6612IRZ Information**

Part Number ISL6612IRZ

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC MOSFET DRVR SYNC BUCK 10-DFN

Package 10-VFDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

For Reference Only

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



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# **Certified Quality**

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## **ISL6612IRZ Specifications**

Manufacturer Part Number  Manufacturer  Renesas Electronics America  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  10-VFDFN Exposed Pad  Series  - Driven Configuration  Half-Bridge  Channel Type  Synchronous  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)  Rise / Fall Time (Typ)  Operating Temperature  A0°C ~ 125°C (TJ)  Mounting Type  Package / Case  Supplies During Package  Supplies During Package  Supplies During Package  Supplies During Package  Series  Integrated Circuits (ICs)  PMIC - Gate Drivers  10-VFDFN Exposed Pad  Supplies During Package  Supplies During Package  Supplies During Package  Integrated Circuits (ICs)  PMIC - Gate Drivers  Synchronous  10-VFDFN Exposed Pad  Supplies During Package  Supplies During Pac	•	
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PMIC - Gate Drivers  Package  10-VFDFN Exposed Pad  Series  - Driven Configuration  Half-Bridge  Channel Type  Synchronous  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  10.8 V ~ 13.2 V  Logic Voltage - VIL, VIH  - Current - Peak Output (Source, Sink)  Input Type  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case	Manufacturer	Renesas Electronics America
Package 10-VFDFN Exposed Pad  Series - Driven Configuration Half-Bridge Channel Type Synchronous Number of Drivers 2 Gate Type N-Channel MOSFET  Voltage - Supply 10.8 V ~ 13.2 V  Logic Voltage - VIL, VIH - Current - Peak Output (Source, Sink) 1.25A, 2A  Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 36V  Rise / Fall Time (Typ) 26ns, 18ns  Operating Temperature -40°C ~ 125°C (TJ)  Mounting Type Surface Mount Package / Case 10-VFDFN 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 10.8 V ~ 13.2 V Logic Voltage - VIL, VIH Current - Peak Output (Source, Sink) 1.25A, 2A Input Type Non-Inverting High Side Voltage - Max (Bootstrap) 36V Rise / Fall Time (Typ) 26ns, 18ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad		PMIC - Gate Drivers
Driven Configuration  Channel Type  Synchronous  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  10.8 V ~ 13.2 V  Logic Voltage - VIL, VIH  - 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  10-VFDFN Exposed Pad	Package	10-VFDFN Exposed Pad
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Number of Drivers  Gate Type  N-Channel MOSFET  Voltage - Supply  10.8 V ~ 13.2 V  Logic Voltage - VIL, VIH  - Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  26ns, 18ns  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad	Driven Configuration	Half-Bridge
Gate TypeN-Channel MOSFETVoltage - Supply10.8 V ~ 13.2 VLogic Voltage - VIL, VIH-Current - Peak Output (Source, Sink)1.25A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)36VRise / Fall Time (Typ)26ns, 18nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case10-VFDFN Exposed Pad	Channel Type	Synchronous
Voltage - Supply  Logic Voltage - VIL, VIH  - Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Operating Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad	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)  Operating Temperature  Operating Type  Surface Mount  Package / Case  Package / Case	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  Operating Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad	Voltage - Supply	10.8 V ~ 13.2 V
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Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad	Rise / Fall Time (Typ)	26ns, 18ns
Package / Case 10-VFDFN Exposed Pad	Operating Temperature	-40°C ~ 125°C (TJ)
	Mounting Type	Surface Mount
Supplier Davice Peakage	Package / Case	10-VFDFN Exposed Pad
Supplied Device rackage 10-DFN (3X3)	Supplier Device Package	10-DFN (3x3)
Report errors?		Report errors?

#### **ISL6612IRZ 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.

### **ISL6612IRZ Payment Methods**



















### **ISL6612IRZ Shipping Methods**













If you have any question about ISL6612IRZ, please do not hesitate to contact us!

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