



### ISL6614CBZ-TR5238 Information



For Reference Only

Part Number ISL6614CBZ-TR5238

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)

PMIC - Gate Drivers

**Description** IC DRVR DUAL SYNC BUCK 14-SOIC

**Package** 14-SOIC (0.154", 3.90mm Width)

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.









## ISL6614CBZ-TR5238 Specifications

Manufacturer Part NumberISL6614CBZ-TR5238ManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)Package14-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers4Gate 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 Temperature0°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case14-SOIC (0.154", 3.90mm Width)		
CategoryIntegrated Circuits (ICs)Package14-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers4Gate 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 Temperature0°C ~ 125°C (TJ)Mounting TypeSurface Mount	Manufacturer Part Number	ISL6614CBZ-TR5238
Package 14-SOIC (0.154", 3.90mm Width)  Series - Driven Configuration Half-Bridge Channel Type Synchronous  Number of Drivers 4  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 0°C ~ 125°C (TJ)  Mounting Type Surface Mount	Manufacturer	Renesas Electronics America
Package 14-SOIC (0.154", 3.90mm Width)  Series -  Driven Configuration Half-Bridge  Channel Type Synchronous  Number of Drivers 4  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 0°C ~ 125°C (TJ)  Mounting Type Surface Mount	Category	Integrated Circuits (ICs)
Series Driven Configuration Half-Bridge Channel Type Synchronous Number of Drivers 4 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 Mounting Type Surface Mount		PMIC - Gate Drivers
Driven Configuration  Channel Type  Synchronous  Number of Drivers  4  Gate Type  N-Channel MOSFET  Voltage - Supply  10.8 V ~ 13.2 V  Logic Voltage - VIL, VIH	Package	14-SOIC (0.154", 3.90mm Width)
Channel Type Synchronous  Number of Drivers 4  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 0°C ~ 125°C (TJ)  Mounting Type Surface Mount	Series	-
Number of Drivers  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  O°C ~ 125°C (TJ)  Mounting Type  N-Channel MOSFET  1.28 A  No-Channel MOSFET  1.28 A  1.29 A  1.25	Driven Configuration	Half-Bridge
Gate TypeN-Channel MOSFETVoltage - Supply $10.8 \text{ V} \sim 13.2 \text{ V}$ Logic Voltage - VIL, VIH-Current - Peak Output (Source, Sink) $1.25A, 2A$ Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap) $36V$ Rise / Fall Time (Typ) $26ns, 18ns$ Operating Temperature $0^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)Mounting TypeSurface Mount	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  O°C ~ 125°C (TJ)  Mounting Type  10.8 V ~ 13.2 V  Non-Inverting  Non-Inverting  Surface Mount	Number of Drivers	4
Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  O°C ~ 125°C (TJ)  Mounting Type  Surface Mount	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  O°C ~ 125°C (TJ)  Mounting Type  Surface Mount	Voltage - Supply	10.8 V ~ 13.2 V
Input Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 26ns, 18ns Operating Temperature 0°C ~ 125°C (TJ) Mounting Type Surface Mount	Logic Voltage - VIL, VIH	-
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  26ns, 18ns  Operating Temperature  0°C ~ 125°C (TJ)  Mounting Type  Surface Mount	Current - Peak Output (Source, Sink)	1.25A, 2A
Rise / Fall Time (Typ) $26ns, 18ns$ Operating Temperature $0^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)Mounting TypeSurface Mount	Input Type	Non-Inverting
Operating Temperature $0^{\circ}\text{C} \sim 125^{\circ}\text{C} \text{ (TJ)}$ Mounting Type Surface Mount	High Side Voltage - Max (Bootstrap)	36V
Mounting Type Surface Mount	Rise / Fall Time (Typ)	26ns, 18ns
C 71	Operating Temperature	0°C ~ 125°C (TJ)
Package / Case 14-SOIC (0.154", 3.90mm Width)	Mounting Type	Surface Mount
	Package / Case	14-SOIC (0.154", 3.90mm Width)
Supplier Device Package 14-SOIC	Supplier Device Package	14-SOIC
Report errors?		Report errors?

#### ISL6614CBZ-TR5238 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.

## ISL6614CBZ-TR5238 Payment Methods



















## ISL6614CBZ-TR5238 Shipping Methods













If you have any question about ISL6614CBZ-TR5238, please do not hesitate to contact us!

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