



## **ISL6612ECBZ Information**



For Reference Only

Part Number ISL6612ECBZ

Manufacturer Intersil

Category Integrated Circuits (ICs)

**PMIC - Gate Drivers** 

**Description**IC MOSFET DRVR SYNC BUCK 8EPSOIC**Package**8-SOIC (0.154", 3.90mm Width) Exposed Pad

For the pricing/inventory/lead time, please contact

us

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# **ISL6612ECBZ Specifications**

Manufacturer Part NumberISL6612ECBZManufacturerIntersilCategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage8-SOIC (0.154", 3.90mm Width) Exposed PadSeries-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers2Gate 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		
Category  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-SOIC (0.154", 3.90mm Width) 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  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Integrated Circuits (ICs)  PMIC - Gate Drivers  8-SOIC (0.154", 3.90mm Width) Exposed Pad  9 Non-Invertinge  10.8 V ~ 13.2 V  10.8 V ~ 13.2 V  10.8 V ~ 13.2 V  10.9 V ~ 13	Manufacturer Part Number	ISL6612ECBZ
Package 8-SOIC (0.154", 3.90mm Width) 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 0°C ~ 125°C (TJ)	Manufacturer	Intersil
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Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers2Gate 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)		PMIC - Gate Drivers
Driven Configuration  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  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Half-Bridge  Synchronous  1  Logic Voltage  N-Channel MOSFET  N-Channel MOSFET  10.8 V ~ 13.2 V  10.8 V ~ 13.2 V  10.8 V ~ 13.2 V  20  10.8 V ~ 13.2	Package	8-SOIC (0.154", 3.90mm Width) Exposed Pad
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 0°C ~ 125°C (TJ)	Series	-
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)  Operating Temperature  2  N-Channel MOSFET  1.25 A, 2 A  Non-Inverting  36V  26ns, 18ns  Operating Temperature  0°C ~ 125°C (TJ)	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) $1.25\text{A}$ , $2\text{A}$ Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap) $36\text{V}$ Rise / Fall Time (Typ) $26\text{ns}$ , $18\text{ns}$ Operating Temperature $0^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)	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  10.8 V ~ 13.2 V  -  Non-Inverting  36V  26ns, 18ns  Operating Temperature  0°C ~ 125°C (TJ)	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	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  1.25A, 2A  Non-Inverting  36V  26ns, 18ns  Operating Temperature  0°C ~ 125°C (TJ)	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)	Logic Voltage - VIL, VIH	-
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  26ns, 18ns  Operating Temperature  0°C ~ 125°C (TJ)	Current - Peak Output (Source, Sink)	1.25A, 2A
Rise / Fall Time (Typ)  26ns, 18ns  Operating Temperature  0°C ~ 125°C (TJ)	Input Type	Non-Inverting
Operating Temperature $0^{\circ}\text{C} \sim 125^{\circ}\text{C} \text{ (TJ)}$	High Side Voltage - Max (Bootstrap)	36V
	Rise / Fall Time (Typ)	26ns, 18ns
Mounting Type Surface Mount	Operating Temperature	0°C ~ 125°C (TJ)
	Mounting Type	Surface Mount
Package / Case 8-SOIC (0.154", 3.90mm Width) Exposed Pad	Package / Case	8-SOIC (0.154", 3.90mm Width) Exposed Pad
Supplier Device Package 8-SOIC-EP	Supplier Device Package	8-SOIC-EP
Report errors?		Report errors?

#### **ISL6612ECBZ 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.

# **ISL6612ECBZ Payment Methods**



















### **ISL6612ECBZ Shipping Methods**













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