



## **ISL6612BIB-T Information**

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Part Number ISL6612BIB-T

Manufacturer Intersil

Category Integrated Circuits (ICs)

**PMIC - Gate Drivers** 

**Description** IC MOSFET DRVR SYNC BUCK 8-SOIC

**Package** 8-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

us

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# **ISL6612BIB-T Specifications**

Manufacturer Part NumberISL6612BIB-TManufacturerIntersilCategoryIntegrated Circuits (ICs)PMIC - Gate DriversPackage8-SOIC (0.154", 3.90mm Width)Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply7 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)		
Category  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-SOIC (0.154", 3.90mm Width)  Series  - Driven Configuration  Half-Bridge  Channel Type  Synchronous  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  7 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)  Non-Investinge  5 Non-Inverting  1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Manufacturer Part Number	ISL6612BIB-T
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Driven Configuration  Channel Type  Synchronous  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  Type  Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Half-Bridge  Synchronous  N-Channel MOSFET  Type  N-Channel MOSFET  No-Channel MOSFET  No-Channel MOSFET  Voltage - VIL, VIH  - Current - Peak Output (Source, Sink)  1.25A, 2A  Non-Inverting  36V  Rise / Fall Time (Typ)  26ns, 18ns  -40°C ~ 125°C (TJ)	Package	8-SOIC (0.154", 3.90mm Width)
Channel Type  Synchronous  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  7 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  Synchronous  1.25A.  N-Channel MOSFET  No-Channel MOSFET  No-Channel MOSFET  7 V ~ 13.2 V  - 40°C ~ 125°C (TJ)	Series	-
Number of Drivers  Gate Type  N-Channel MOSFET  Voltage - Supply  7 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  7 V ~ 13.2 V  -  Noverall 1.25A, 2A  1.25A, 2A  Solve Non-Inverting  36V  Rise / Fall Time (Typ)  26ns, 18ns  -40°C ~ 125°C (TJ)	Driven Configuration	Half-Bridge
Gate Type  N-Channel MOSFET  Voltage - Supply  7 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  N-Channel MOSFET  7 V ~ 13.2 V  Noull Side Voltage - VIL, VIH  - 26 A, 2A  Solution Side Voltage - Max (Bootstrap)  26 A, 18 B S  Operating Temperature  -40°C ~ 125°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  7 V ~ 13.2 V  - Nover 13.2 V  1.25A, 2A  1.25A, 2A  Solution  1.25	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  -40°C ~ 125°C (TJ)	Gate Type	N-Channel MOSFET
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Rise / Fall Time (Typ) 26ns, 18ns Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)	Input Type	Non-Inverting
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C} \text{ (TJ)}$	High Side Voltage - Max (Bootstrap)	36V
1 0 1	Rise / Fall Time (Typ)	26ns, 18ns
	Operating Temperature	-40°C ~ 125°C (TJ)
Mounting Type Surface Mount	Mounting Type	Surface Mount
Package / Case 8-SOIC (0.154", 3.90mm Width)	Package / Case	8-SOIC (0.154", 3.90mm Width)
Supplier Device Package 8-SOIC	Supplier Device Package	8-SOIC
Report errors?		Report errors?

### **ISL6612BIB-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.

### **ISL6612BIB-T Payment Methods**





















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