



ISL6612AEIB Information



For Reference Only

Part Number ISL6612AEIB

Manufacturer Intersil

Category Integrated Circuits (ICs)

PMIC - Gate Drivers

DescriptionIC 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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ISL6612AEIB Specifications

Manufacturer Part NumberISL6612AEIBManufacturerIntersilCategoryIntegrated 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 Temperature-40°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 -40°C ~ 125°C (TJ)	Manufacturer Part Number	ISL6612AEIB
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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 4-40°C ~ 125°C (TJ)	Category	Integrated Circuits (ICs)
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 Temperature-40°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 20.8 Sink) 1.25A, 2A Non-Inverting Alov Solv Solv	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 -40°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 10.8 V ~ 13.2 V - V Non-Inverting Solv 2 Solv 2 Solv 2 Solv 2 Solv 3 Solv 40°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) 1.25A , 2A Input TypeNon-InvertingHigh Side Voltage - Max (Bootstrap) 36V Rise / Fall Time (Typ) 26ns , 18ns Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (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 -40°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 -40°C ~ 125°C (TJ)	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 -40°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 -40°C ~ 125°C (TJ)	Logic Voltage - VIL, VIH	-
High Side Voltage - Max (Bootstrap) $36V$ Rise / Fall Time (Typ) $26ns$, $18ns$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (TJ)	Current - Peak Output (Source, Sink)	1.25A, 2A
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
Mounting Type Surface Mount	Operating Temperature	-40°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?

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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.

ISL6612AEIB Payment Methods



















ISL6612AEIB Shipping Methods













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