



# **ISL6605IBZ Information**



For Reference Only

Part Number ISL6605IBZ

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC DRIVER MOSFET DUAL SYNC 8SOIC

Package 8-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



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# **ISL6605IBZ Specifications**

Manufacturer Part Number       ISL6605IBZ         Manufacturer       Renesas Electronics America         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       4.5 V ~ 5.5 V         Logic Voltage - VIL, VIH       1V, 2V         Current - Peak Output (Source, Sink)       2A, 2A         Input Type       Non-Inverting         High Side Voltage - Max (Bootstrap)       33V         Rise / Fall Time (Typ)       8ns, 8ns         Operating Temperature       -40°C ~ 125°C (TI)         Mounting Type       Surface Mount         Package / Case       8-SOIC (0.154", 3.90mm Width)         Supplier Device Package       8-SOIC (0.154", 3.90mm Width)		
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  4.5 V ~ 5.5 V  Logic Voltage - VIL, VIH  1V, 2V  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  Backage / Case  8-SOIC (0.154", 3.90mm Width)	Manufacturer Part Number	ISL6605IBZ
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 4.5 V ~ 5.5 V  Logic Voltage - VIL, VIH 1V, 2V  Current - Peak Output (Source, Sink) 2A, 2A  Input Type Non-Inverting  High Side Voltage - Max (Bootstrap) 33V  Rise / Fall Time (Typ) 8ns, 8ns  Operating Temperature -40°C ~ 125°C (TJ)  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)	Manufacturer	Renesas Electronics America
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 4.5 V ~ 5.5 V  Logic Voltage - VIL, VIH 1V, 2V  Current - Peak Output (Source, Sink) 2A, 2A  Input Type Non-Inverting  High Side Voltage - Max (Bootstrap) 33V  Rise / Fall Time (Typ) 8ns, 8ns  Operating Temperature -40°C ~ 125°C (TJ)  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)	Category	Integrated Circuits (ICs)
Series-Driven ConfigurationHalf-BridgeChannel TypeSynchronousNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply4.5 V ~ 5.5 VLogic Voltage - VIL, VIH1V, 2VCurrent - Peak Output (Source, Sink)2A, 2AInput TypeNon-InvertingHigh Side Voltage - Max (Bootstrap)33VRise / Fall Time (Typ)8ns, 8nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-SOIC (0.154", 3.90mm Width)		PMIC - Gate Drivers
Driven Configuration  Channel Type  Synchronous  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  4.5 V ~ 5.5 V  Logic Voltage - VIL, VIH  1V, 2V  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  8-SOIC (0.154", 3.90mm Width)	Package	8-SOIC (0.154", 3.90mm Width)
Channel Type Synchronous  Number of Drivers 2  Gate Type N-Channel MOSFET  Voltage - Supply 4.5 V ~ 5.5 V  Logic Voltage - VIL, VIH 1V, 2V  Current - Peak Output (Source, Sink) 2A, 2A  Input Type Non-Inverting  High Side Voltage - Max (Bootstrap) 33V  Rise / Fall Time (Typ) 8ns, 8ns  Operating Temperature -40°C ~ 125°C (TJ)  Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)	Series	-
Number of Drivers  Gate Type  N-Channel MOSFET  Voltage - Supply  4.5 V ~ 5.5 V  Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)	Driven Configuration	Half-Bridge
Gate Type  N-Channel MOSFET  Voltage - Supply  4.5 V ~ 5.5 V  Logic Voltage - VIL, VIH  1V, 2V  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  N-Channel MOSFET  A.5 V ~ 5.5 V  1V, 2V  1V, 2V  San, 2A  Non-Inverting  Surface Mount  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)	Channel Type	Synchronous
Voltage - Supply  4.5 V ~ 5.5 V  Logic Voltage - VIL, VIH  1V, 2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Surface Mount  Package / Case  4.5 V ~ 5.5 V  4.5 V ~ 5.5 V  1V, 2V  2A, 2A  Non-Inverting  Non-Inverting  Surface Mount  40°C ~ 125°C (TJ)  Surface Mount  8-SOIC (0.154", 3.90mm Width)	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)  Surface Mount  Package / Case  1V, 2V  2A, 2A  Non-Inverting  83V  8ns, 8ns  -40°C ~ 125°C (TJ)  Surface Mount  8-SOIC (0.154", 3.90mm Width)	Gate Type	N-Channel MOSFET
Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  8ns, 8ns  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)	Voltage - Supply	4.5 V ~ 5.5 V
Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  8ns, 8ns  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)	Logic Voltage - VIL, VIH	1V, 2V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  8ns, 8ns  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)	Current - Peak Output (Source, Sink)	2A, 2A
Rise / Fall Time (Typ)  8ns, 8ns  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-SOIC (0.154", 3.90mm Width)	Input Type	Non-Inverting
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C} \text{ (TJ)}$ Mounting Type Surface Mount  Package / Case 8-SOIC (0.154", 3.90mm Width)	High Side Voltage - Max (Bootstrap)	33V
Mounting Type Surface Mount Package / Case 8-SOIC (0.154", 3.90mm Width)	Rise / Fall Time (Typ)	8ns, 8ns
Package / Case 8-SOIC (0.154", 3.90mm Width)	Operating Temperature	-40°C ~ 125°C (TJ)
	Mounting Type	Surface Mount
Supplier Device Package 8-SOIC	Package / Case	8-SOIC (0.154", 3.90mm Width)
Supplier Device Lackage 6-501C	Supplier Device Package	8-SOIC
Report errors?		Report errors?

### **ISL6605IBZ 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.

### **ISL6605IBZ Payment Methods**



















### **ISL6605IBZ Shipping Methods**













If you have any question about ISL6605IBZ, please do not hesitate to contact us!

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