



# **ISL6207CR-T Information**



For Reference Only

Part Number ISL6207CR-T

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

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

Package 8-VQFN Exposed Pad

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.









# **ISL6207CR-T Specifications**

Manufacturer Part Number  Manufacturer  Renesas Electronics America  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-VQFN Exposed Pad  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)  Mounting Type  Surface Mount  Package / Case  Supplier Device Package  8-QFN (3x3)  Report errors?		
Category Integrated Circuits (ICs) PMIC - Gate Drivers  Package 8 - VQFN Exposed Pad  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) 1nput Type Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Sns, 8ns Operating Temperature 1-10°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package 8-QFN (3x3)	Manufacturer Part Number	ISL6207CR-T
Package 8-VQFN Exposed Pad  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) 36V Rise / Fall Time (Typ) 8ns, 8ns  Operating Temperature -10°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package 8-QFN (3x3)	Manufacturer	Renesas Electronics America
Package8-VQFN Exposed PadSeries-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)36VRise / Fall Time (Typ)8ns, 8nsOperating Temperature-10°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-VQFN Exposed PadSupplier Device Package8-QFN (3x3)	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)36VRise / Fall Time (Typ)8ns, 8nsOperating Temperature-10°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-VQFN Exposed PadSupplier Device Package8-QFN (3x3)		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) Sens, 8ns Operating Temperature -10°C ~ 125°C (TJ)  Mounting Type Surface Mount Package / Case 8-VQFN Exposed Pad Supplier Device Package	Package	8-VQFN Exposed Pad
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) 36V  Rise / Fall Time (Typ) 8ns, 8ns  Operating Temperature -10°C ~ 125°C (TJ)  Mounting Type Surface Mount  Package / Case 8-VQFN Exposed Pad  Supplier Device Package 8-QFN (3x3)	Series	-
Number of Drivers  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  -10°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VQFN Exposed Pad  Supplier Device Package	Driven Configuration	Half-Bridge
Gate 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)36VRise / Fall Time (Typ)8ns, 8nsOperating Temperature-10°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-VQFN Exposed PadSupplier Device Package8-QFN (3x3)	Channel Type	Synchronous
Voltage - Supply  Logic Voltage - VIL, VIH  1V, 2V  Current - Peak Output (Source, Sink)  Input Type  Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Soperating Temperature  Operating Type  Surface Mount  Package / Case  8-VQFN Exposed Pad  Supplier Device Package	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  Supplier Device Package  1V, 2V  2A, 2A  Non-Inverting  8NS, 8NS  700  Surface Mount  Surface Mount  8-QFN (3x3)	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  -10°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VQFN Exposed Pad  Supplier Device Package	Voltage - Supply	4.5 V ~ 5.5 V
Input Type  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -10°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VQFN Exposed Pad  Supplier Device Package	Logic Voltage - VIL, VIH	1V, 2V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  8ns, 8ns  Operating Temperature  -10°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VQFN Exposed Pad  Supplier Device Package  8-QFN (3x3)	Current - Peak Output (Source, Sink)	2A, 2A
Rise / Fall Time (Typ)  8ns, 8ns  Operating Temperature  -10°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VQFN Exposed Pad  Supplier Device Package  8-QFN (3x3)	Input Type	Non-Inverting
Operating Temperature  -10°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-VQFN Exposed Pad  Supplier Device Package  8-QFN (3x3)	High Side Voltage - Max (Bootstrap)	36V
Mounting Type Surface Mount  Package / Case 8-VQFN Exposed Pad Supplier Device Package 8-QFN (3x3)	Rise / Fall Time (Typ)	8ns, 8ns
Package / Case 8-VQFN Exposed Pad Supplier Device Package 8-QFN (3x3)	Operating Temperature	-10°C ~ 125°C (TJ)
Supplier Device Package 8-QFN (3x3)	Mounting Type	Surface Mount
	Package / Case	8-VQFN Exposed Pad
Report errors?	Supplier Device Package	8-QFN (3x3)
1		Report errors?

### **ISL6207CR-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.

### **ISL6207CR-T Payment Methods**



















### **ISL6207CR-T Shipping Methods**













If you have any question about ISL6207CR-T, please do not hesitate to contact us!

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