



#### **ISL89162FRTAZ Information**



For Reference Only

Part Number ISL89162FRTAZ

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

**Description** IC MOSFET DRIVER 2CH 6A 8TDFN

Package 8-WDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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## **ISL89162FRTAZ Specifications**

Manufacturer Part Number  Manufacturer  Renesas Electronics America  Integrated Circuits (ICs)  PMIC - Gate Drivers  Package  8-WDFN Exposed Pad  Series  - Driven Configuration  Low-Side  Channel Type  Independent  Number of Drivers  2 Gate Type  N-Channel MOSFET  Voltage - Supply  4.5 V ~ 16 V  Logic Voltage - VIL, VIH  1.22V, 2.08V  Current - Peak Output (Source, Sink)  Input Type  Inverting, Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Ao°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-WDFN Exposed Pad  Supplier Device Package  8-TDFN (3x3)		
Category  Integrated Circuits (ICs)  PMIC - Gate Drivers  8-WDFN Exposed Pad  Series  - Driven Configuration  Low-Side  Independent  Number of Drivers  2 Gate Type  N-Channel MOSFET  Voltage - Supply  Logic Voltage - VIL, VIH  Logic Voltage - WIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Inverting, Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Au°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-WDFN Exposed Pad  Supplier Device Package	Manufacturer Part Number	ISL89162FRTAZ
Package 8-WDFN Exposed Pad  Series - Driven Configuration Low-Side Channel Type Independent Number of Drivers 2 Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 16 V Logic Voltage - VIL, VIH 1.22V, 2.08V Current - Peak Output (Source, Sink) 6A, 6A Input Type Inverting, Non-Inverting High Side Voltage - Max (Bootstrap) - Rise / Fall Time (Typ) 20ns, 20ns Operating Temperature -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-WDFN Exposed Pad Supplier Device Package	Manufacturer	Renesas Electronics America
Package8-WDFN Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply4.5 V ~ 16 VLogic Voltage - VIL, VIH1.22V, 2.08VCurrent - Peak Output (Source, Sink)6A, 6AInput TypeInverting, Non-InvertingHigh Side Voltage - Max (Bootstrap)-Rise / Fall Time (Typ)20ns, 20nsOperating Temperature-40°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case8-WDFN Exposed PadSupplier Device Package8-TDFN (3x3)	Category	Integrated Circuits (ICs)
Series - Configuration Low-Side Independent Independent Independent Privers 2 Surface Mount Peakage / Case Surply Low-Side Independent Number of Drivers 2 Logic Voltage - Supply 4.5 V ~ 16 V Logic Voltage - VIL, VIH 1.22V, 2.08V Logic Voltage - VIL, VIH 1.22V, 2.08V Inverting, Non-Inverting Inverting, Non-Inverting Logic Voltage - Max (Bootstrap) - Consequence of the Cons		PMIC - Gate Drivers
Driven Configuration  Channel Type  Independent  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  4.5 V ~ 16 V  Logic Voltage - VIL, VIH  1.22V, 2.08V  Current - Peak Output (Source, Sink)  Input Type  Inverting, 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-WDFN Exposed Pad  Supplier Device Package	Package	8-WDFN Exposed Pad
Channel Type  Number of Drivers  2  Gate Type  N-Channel MOSFET  Voltage - Supply  4.5 V ~ 16 V  Logic Voltage - VIL, VIH  1.22V, 2.08V  Current - Peak Output (Source, Sink)  Input Type  Inverting, 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-WDFN Exposed Pad  Supplier Device Package	Series	-
Number of Drivers  Gate Type  N-Channel MOSFET  Voltage - Supply  4.5 V ~ 16 V  Logic Voltage - VIL, VIH  1.22V, 2.08V  Current - Peak Output (Source, Sink)  Input Type  Inverting, 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-WDFN Exposed Pad  Supplier Device Package  8-TDFN (3x3)	Driven Configuration	Low-Side
Gate Type  N-Channel MOSFET  Voltage - Supply  4.5 V ~ 16 V  Logic Voltage - VIL, VIH  1.22V, 2.08V  Current - Peak Output (Source, Sink)  Input Type  Inverting, Non-Inverting  High Side Voltage - Max (Bootstrap)	Channel Type	Independent
Voltage - Supply  Logic Voltage - VIL, VIH  1.22V, 2.08V  Current - Peak Output (Source, Sink)  Input Type  Inverting, 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-WDFN Exposed Pad  Supplier Device Package	Number of Drivers	2
Logic Voltage - VIL, VIH  Current - Peak Output (Source, Sink)  Input Type  Inverting, Non-Inverting  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  A0°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-WDFN Exposed Pad  Supplier Device Package	Gate Type	N-Channel MOSFET
Current - Peak Output (Source, Sink)  Input Type  Inverting, 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-WDFN Exposed Pad  Supplier Device Package  8-TDFN (3x3)	Voltage - Supply	4.5 V ~ 16 V
Input Type  High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  Operating Type  Mounting Type  Surface Mount  Package / Case  Supplier Device Package  Inverting, Non-Inverting  - 40°C ~ 125°C (TJ)  Surface Mount  Surface Mount  8-WDFN Exposed Pad  8-TDFN (3x3)	Logic Voltage - VIL, VIH	1.22V, 2.08V
High Side Voltage - Max (Bootstrap)  Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-WDFN Exposed Pad  Supplier Device Package  8-TDFN (3x3)	Current - Peak Output (Source, Sink)	6A, 6A
Rise / Fall Time (Typ)  Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-WDFN Exposed Pad  Supplier Device Package  8-TDFN (3x3)	Input Type	Inverting, Non-Inverting
Operating Temperature  -40°C ~ 125°C (TJ)  Mounting Type  Surface Mount  Package / Case  8-WDFN Exposed Pad  Supplier Device Package  8-TDFN (3x3)	High Side Voltage - Max (Bootstrap)	-
Mounting Type Surface Mount Package / Case 8-WDFN Exposed Pad Supplier Device Package 8-TDFN (3x3)	Rise / Fall Time (Typ)	20ns, 20ns
Package / Case  8-WDFN Exposed Pad  Supplier Device Package  8-TDFN (3x3)	Operating Temperature	-40°C ~ 125°C (TJ)
Supplier Device Package 8-TDFN (3x3)	Mounting Type	Surface Mount
	Package / Case	8-WDFN Exposed Pad
Report errors?	Supplier Device Package	8-TDFN (3x3)
		Report errors?

### ISL89162FRTAZ Guarantees



### **Quality Guarantees**

We provide 90 days warranty. \*

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