



ISL89165FRTBZ-T Information



For Reference Only

Part Number ISL89165FRTBZ-T

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description MOSFET DRIVER 2CH 5.0V 6A 8TDFN

Package 8-WDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

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



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ISL89165FRTBZ-T 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 1.85V, 3.15V Current - Peak Output (Source, Sink) Input Type Inverting, Non-Inverting High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature 4-0°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 - VIL, 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 SurDFN (3x3)	Manufacturer Part Number	ISL89165FRTBZ-T
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 1.85 V, 3.15 V 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 8-TDFN (3x3)	Manufacturer	Renesas Electronics America
Package8-WDFN Exposed PadSeries-Driven ConfigurationLow-SideChannel TypeIndependentNumber of Drivers2Gate TypeN-Channel MOSFETVoltage - Supply4.5 V ~ 16 VLogic Voltage - VIL, VIH1.85V, 3.15VCurrent - 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 - 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 1.85V, 3.15V 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 8-TDFN (3x3)		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 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 -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 1.85V, 3.15V Current - Peak Output (Source, Sink) 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 8-TDFN (3x3)	Series	-
Number of Drivers Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 16 V Logic Voltage - VIL, VIH 1.85V, 3.15V 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	Driven Configuration	Low-Side
Gate Type N-Channel MOSFET Voltage - Supply 4.5 V ~ 16 V Logic Voltage - VIL, VIH 1.85V, 3.15V Current - Peak Output (Source, Sink) Input Type Inverting, Non-Inverting High Side Voltage - Max (Bootstrap)	Channel Type	Independent
Voltage - Supply Logic Voltage - VIL, VIH 1.85V, 3.15V 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 1.85V, 3.15V 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	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 -40°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 8-WDFN Exposed Pad Supplier Device Package 8-TDFN (3x3)	Logic Voltage - VIL, VIH	1.85V, 3.15V
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?

ISL89165FRTBZ-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.

ISL89165FRTBZ-T Payment Methods





















ISL89165FRTBZ-T Shipping Methods













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