



ISL6594ACRZ-T Information

Part Number ISL6594ACRZ-T

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description IC MOSFET DRVR SYNC BUCK 10-DFN

Package 10-VFDFN Exposed Pad

For the pricing/inventory/lead time, please contact

us

For Reference Only

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.









ISL6594ACRZ-T Specifications

Manufacturer Part NumberISL6594ACRZ-TManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)Package10-VFDFN 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 Temperature0°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case10-VFDFN Exposed PadSupplier Device Package10-DFN (3x3)Report errors?		
Category Integrated Circuits (ICs) PMIC - Gate Drivers Package 10-VFDFN 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) Sise / Fall Time (Typ) Operating Temperature O°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package	Manufacturer Part Number	ISL6594ACRZ-T
Package 10-VFDFN 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 0°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package	Manufacturer	Renesas Electronics America
Package 10-VFDFN 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 0°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package 11-DFN (3x3)	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 Temperature0°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case10-VFDFN Exposed PadSupplier Device Package10-DFN (3x3)		PMIC - Gate Drivers
Driven Configuration 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 O°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package	Package	10-VFDFN 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 0°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	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 0°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package	Driven Configuration	Half-Bridge
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) 26ns, 18ns Operating Temperature 0°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package	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 O°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN 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) Operating Temperature O°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package	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 O°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package	Voltage - Supply	10.8 V ~ 13.2 V
Input Type High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) Operating Temperature O°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package	Logic Voltage - VIL, VIH	-
High Side Voltage - Max (Bootstrap) Rise / Fall Time (Typ) 26ns, 18ns Operating Temperature 0°C ~ 125°C (TJ) Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	Current - Peak Output (Source, Sink)	1.25A, 2A
Rise / Fall Time (Typ)26ns, 18nsOperating Temperature0°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case10-VFDFN Exposed PadSupplier Device Package10-DFN (3x3)	Input Type	Non-Inverting
Operating Temperature0°C ~ 125°C (TJ)Mounting TypeSurface MountPackage / Case10-VFDFN Exposed PadSupplier Device Package10-DFN (3x3)	High Side Voltage - Max (Bootstrap)	36V
Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	Rise / Fall Time (Typ)	26ns, 18ns
Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	Operating Temperature	0°C ~ 125°C (TJ)
Supplier Device Package 10-DFN (3x3)	Mounting Type	Surface Mount
	Package / Case	10-VFDFN Exposed Pad
Report errors?	Supplier Device Package	10-DFN (3x3)
		Report errors?

ISL6594ACRZ-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.

ISL6594ACRZ-T Payment Methods



















ISL6594ACRZ-T Shipping Methods













If you have any question about ISL6594ACRZ-T, please do not hesitate to contact us!

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