



ISL6594BCRZ-T Information

Part Number ISL6594BCRZ-T

Manufacturer Renesas Electronics America

Category Integrated Circuits (ICs)
PMIC - Gate Drivers

Description IC MOSFET DVR 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
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ISL6594BCRZ-T Specifications

Manufacturer Part NumberISL6594BCRZ-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) Rise / 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	ISL6594BCRZ-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
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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
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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?

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Quality Guarantees

We provide 90 days warranty. *

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