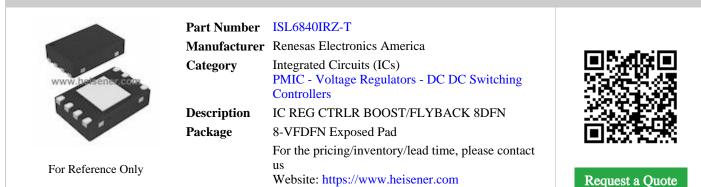


# ISL6840IRZ-T

#### **ISL6840IRZ-T Information**



E-mail: salesdept@heisener.com

## **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.



## **ISL6840IRZ-T Specifications**

Anufacturer Renesas Electronics America   Manufacturer Renesas Electronics America   Category Integrated Circuits (ICs)   PMIC - Voltage Regulators - DC DC Switching Controllers PMIC - Voltage Regulators - DC DC Switching Controllers   Package 8-VFDFN Exposed Pad   Series -   Dutput Type Transistor Driver   Serios Step-Up, Step-Up/Step-Down   Dutput Configuration Positive, Isolation Capable   Sopology Boost, Flyback   Yumber of Outputs 1   Output Phases 1   Voltage - Supply (Vcc/Vdd) 7.5 V ~ 14 V   Output Cycle (Max) 96%   Synchronous Rectifier Yes   Clock Sync No   Serial Interfaces -   Control Features Current Limit, Frequency Control   Operating Temperature 4-0°C ~ 105°C (TA)		
CategoryIntegrated Circuits (ICs)PMIC - Voltage Regulators - DC DC Switching ControllersPackage8-VFDFN Exposed PadPackage-Dutp TypeTransistor DriverSurper Op Step-Up, Step-Up/Step-DownDutput ConfigurationStep-Up, Step-Up/Step-DownPoologyBoost, FlybackPoutput Phases1Output Cycle (Max)96%Parquency - SwitchingVoltage - Supply (Vcc/Vdd)Prequency - SwitchingYesClock SyncNoClock Sync-Control Features-Control Features-Control Features-Ackage / Case8-VFDFN Exposed PadSupplier Device Package8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Manufacturer Part Number	ISL6840IRZ-T
PMIC - Voltage Regulators - DC DC Switching ControllersPackage8-VFDFN Exposed PadSeries-Dutput TypeTransistor DriverFunctionStep-Up, Step-Up/Step-DownDutput ConfigurationPositive, Isolation CapableFopologyBoost, FlybackNumber of Outputs1Dutput Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VPrequency - SwitchingUp to 2MHzDuty Cycle (Max)96%Synchronous Rectifier-Serial Interfaces-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Manufacturer	Renesas Electronics America
Package8-VFDFN Exposed PadSeries-Dutput TypeTransistor DriverFunctionStep-Up, Step-Up/Step-DownDutput ConfigurationPositive, Isolation CapableTopologyBoost, FlybackNumber of Outputs1Dutput Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VPerequency - SwitchingUp to 2MHzDuty Cycle (Max)96%Synchronous RectifierYesClock SyncNoControl FeaturesCurrent Limit, Frequency ControlOperating Temperature4.0°C ~ 105°C (TA)Package / Case8-DFIN (2x3)	Category	Integrated Circuits (ICs)
Series-Dutput TypeTransistor DriverFunctionStep-Up, Step-Up/Step-DownDutput ConfigurationPositive, Isolation CapableDoutput ConfigurationBoost, FlybackNumber of Outputs1Dutput Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VDutput Cycle (Max)96%Synchronous RectifierYesClock SyncNoControl FeaturesCurrent Limit, Frequency ControlOperating Temperature40°C ~ 105°C (TA)Package / Case8-DFN (2x3)		PMIC - Voltage Regulators - DC DC Switching Controllers
Dutput TypeTransistor DriverFunctionStep-Up, Step-Up/Step-DownDutput ConfigurationPositive, Isolation CapableFopologyBoost, FlybackNumber of Outputs1Dutput Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VOutput Cycle (Max)96%Synchronous RectifierVesClock SyncNoControl Features-Output Frageency - SwitchingCurrent Limit, Frequency ControlOutput Phases-Stepilier Device Package8-DFIN (2x3)	Package	8-VFDFN Exposed Pad
FunctionStep-Up, Step-Up/Step-DownDutput ConfigurationPositive, Isolation CapableDoutput ConfigurationBoost, FlybackNumber of Outputs1Dutput Phases1Output Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VPrequency - SwitchingUp to 2MHzDuty Cycle (Max)96%Synchronous RectifierYesClock SyncNoSerial Interfaces-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-DFN (2x3)	Series	-
Dutput ConfigurationPositive, Isolation CapableFopologyBoost, FlybackNumber of Outputs1Dutput Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VVrequency - SwitchingUp to 2MHzDuty Cycle (Max)96%Synchronous RectifierYesClock SyncNoSerial Interfaces-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature40°C ~ 105°C (TA)Package / Case8-DFIN Exposed PadSupplier Device Package8-DFIN (2x3)	Output Type	Transistor Driver
ForBoost, FlybackForpologyBoost, FlybackNumber of Outputs1Dutput Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VVoltage - Supply (Vcc/Vdd)Up to 2MHzDuty Cycle (Max)96%Synchronous RectifierYesClock SyncNoControl Features-Outperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Function	Step-Up, Step-Up/Step-Down
Number of Outputs1Sumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VFrequency - SwitchingUp to 2MHzOuty Cycle (Max)96%Synchronous RectifierYesClock SyncNoClock Sync.Control Features-Operating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Output Configuration	Positive, Isolation Capable
Dutput Phases1Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VFrequency - SwitchingUp to 2MHzDuty Cycle (Max)96%Synchronous RectifierYesClock SyncNoSerial Interfaces-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Topology	Boost, Flyback
Voltage - Supply (Vcc/Vdd)7.5 V ~ 14 VFrequency - SwitchingUp to 2MHzDuty Cycle (Max)96%Synchronous RectifierYesClock SyncNoClock Sync.Control Features-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Number of Outputs	1
Frequency - SwitchingUp to 2MHzOuty Cycle (Max)96%Synchronous RectifierYesClock SyncNoClock Sync.Control Features-Operating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Output Phases	1
Duty Cycle (Max)96%Synchronous RectifierYesClock SyncNoSerial Interfaces-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Voltage - Supply (Vcc/Vdd)	7.5 V ~ 14 V
Synchronous RectifierYesClock SyncNoSerial Interfaces-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Frequency - Switching	Up to 2MHz
Clock SyncNoSerial Interfaces-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Duty Cycle (Max)	96%
Serial Interfaces-Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Synchronous Rectifier	Yes
Control FeaturesCurrent Limit, Frequency ControlOperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Clock Sync	No
Deperating Temperature-40°C ~ 105°C (TA)Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Serial Interfaces	-
Package / Case8-VFDFN Exposed PadSupplier Device Package8-DFN (2x3)	Control Features	Current Limit, Frequency Control
Supplier Device Package 8-DFN (2x3)	Operating Temperature	-40°C ~ 105°C (TA)
	Package / Case	8-VFDFN Exposed Pad
Report errors?	Supplier Device Package	8-DFN (2x3)
		Report errors?

#### **ISL6840IRZ-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 BUARANTEE

#### **Service Guarantees**

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

#### **ISL6840IRZ-T Payment Methods**



# **ISL6840IRZ-T Shipping Methods**



If you have any question about ISL6840IRZ-T, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com