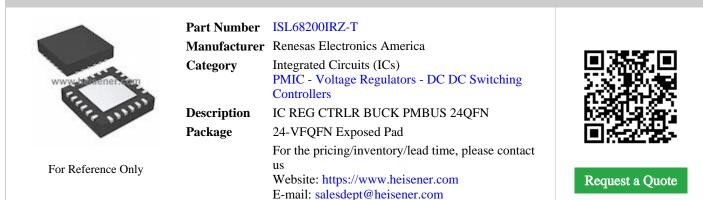


# ISL68200IRZ-T

## **ISL68200IRZ-T Information**



# **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.



## **ISL68200IRZ-T Specifications**

ManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)PMIC - Voltage Regulators - DC DC Switching ControllersPackage24-VFQFN Exposed PadPackageRapid Robust Ripple Regulator <sup>TM</sup> (R4)Output TypeTransistor DriverFunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierKesClock SyncNoSerial InterfacesPC, PMBus, SMBusControl Featuresenable, Phase Control, Power GoodOperating Temperature4.0°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)		
CategoryIntegrated Circuits (ICs)PMIC - Voltage Regulators - DC DC Switching ControllersPackage24-VFQFN Exposed PadSeriesRapid Robust Ripple Regulator <sup>TM</sup> (R4)Output TypeTransistor DriverFunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VPrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierNoSteil InterfacesFC, PMBus, SMBusControl Features-Oprating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Manufacturer Part Number	ISL68200IRZ-T
PMIC - Voltage Regulators - DC DC Switching ControllersPackage24-VFQFN Exposed PadSteriesRapid Robust Ripple Regulator™ (R4)Output TypeTransistor DriverFunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncPC PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature4.4VFQFN Exposed PadPackage / Case24.VFQFN Exposed PadSupplier Device Package24.QFN (4x4)	Manufacturer	Renesas Electronics America
Package24-VFQFN Exposed PadSeriesRapid Robust Ripple Regulator™ (R4)Output TypeTransistor DriverFunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesFC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Category	Integrated Circuits (ICs)
SeriesRapid Robust Ripple Regulator™ (R4)Output TypeTransistor DriverFunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesFC, PMBus, SMBusControl Features4.0°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)		PMIC - Voltage Regulators - DC DC Switching Controllers
Output TypeTransistor DriverFunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VStep-Down300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesPC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-QFN (4x4)	Package	24-VFQFN Exposed Pad
FunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesI/C, PMBus, SMBusControl Features-able, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Series	Rapid Robust Ripple Regulator <sup>TM</sup> (R4)
Output ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesPrC, PMBus, SMBusOutput Features-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Output Type	Transistor Driver
Topology Buck   Number of Outputs 1   Output Phases 1   Output Phases 1   Voltage - Supply (Vcc/Vdd) 4.5 V ~ 24 V   Frequency - Switching 300kHz ~ 1.5MHz   Duty Cycle (Max) -   Synchronous Rectifier Yes   Clock Sync No   Serial Interfaces IPC, PMBus, SMBus   Control Features -40°C ~ 85°C (TA)   Package / Case 24-VFQFN Exposed Pad   Supplier Device Package 24-QFN (4x4)	Function	Step-Down
Number of Outputs1Output Phases1Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesPC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Output Configuration	Positive
Output Phases1Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesPC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Topology	Buck
Voltage - Supply (Vcc/Vdd)4.5 V ~ 24 VFrequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesPC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Number of Outputs	1
Frequency - Switching300kHz ~ 1.5MHzDuty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesFC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Output Phases	1
Duty Cycle (Max)-Synchronous RectifierYesClock SyncNoSerial InterfacesPC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Voltage - Supply (Vcc/Vdd)	4.5 V ~ 24 V
Synchronous RectifierYesClock SyncNoSerial InterfacesIPC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Frequency - Switching	300kHz ~ 1.5MHz
Clock SyncNoSerial InterfacesIPC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Duty Cycle (Max)	-
Serial InterfacesIPC, PMBus, SMBusControl FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Synchronous Rectifier	Yes
Control FeaturesEnable, Phase Control, Power GoodOperating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Clock Sync	No
Operating Temperature-40°C ~ 85°C (TA)Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Serial Interfaces	I <sup>2</sup> C, PMBus, SMBus
Package / Case24-VFQFN Exposed PadSupplier Device Package24-QFN (4x4)	Control Features	Enable, Phase Control, Power Good
Supplier Device Package24-QFN (4x4)	Operating Temperature	-40°C ~ 85°C (TA)
	Package / Case	24-VFQFN Exposed Pad
Report errors?	Supplier Device Package	24-QFN (4x4)
		Report errors?

#### **ISL68200IRZ-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 ELARANTEE

#### **Service Guarantees**

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

#### **ISL68200IRZ-T Payment Methods**



# **ISL68200IRZ-T Shipping Methods**



If you have any question about ISL68200IRZ-T, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com