



#### ISL8105ACRZ-T Information

Part Number ISL8105ACRZ-T

ManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)

PMIC - Voltage Regulators - DC DC Switching

Controllers

**Description** IC REG CTRLR BUCK 10DFN

Package 10-VFDFN 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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# **Certified Quality**

For Reference Only

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# **ISL8105ACRZ-T Specifications**

Manufacturer Part NumberISL8105ACRZ-TManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)PMIC - Voltage Regulators - DC DC Switching ControllersPackage10-VFDFN Exposed PadSeries-Output TypeTransistor DriverFunctionStep-DownOutput ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)6.5 V ~ 14.4 VFrequency - Switching600kHzDuty Cycle (Max)100%Synchronous RectifierYesClock SyncNoSerial Interfaces-Control FeaturesCurrent Limit, EnableOperating Temperature0°C ~ 70°C (TA)		
Category Integrated Circuits (ICs)  PMIC - Voltage Regulators - DC DC Switching Controllers  Package 10-VFDFN Exposed Pad  Series - Output Type Transistor Driver  Function Step-Down Output Configuration Positive  Topology Buck Number of Outputs 1 Output Phases 1 Voltage - Supply (Vcc/Vdd) 6.5 V ~ 14.4 V  Frequency - Switching 600kHz Duty Cycle (Max) 100%  Synchronous Rectifier Yes Clock Sync No Serial Interfaces - Control Features Current Limit, Enable	Manufacturer Part Number	ISL8105ACRZ-T
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Function Step-Down Output Configuration Positive  Topology Buck Number of Outputs 1 Output Phases 1 Voltage - Supply (Vcc/Vdd) 6.5 V ~ 14.4 V Frequency - Switching 600kHz Duty Cycle (Max) 100% Synchronous Rectifier Yes Clock Sync No Serial Interfaces - Control Features Current Limit, Enable	Series	-
Output ConfigurationPositiveTopologyBuckNumber of Outputs1Output Phases1Voltage - Supply (Vcc/Vdd)6.5 V ~ 14.4 VFrequency - Switching600kHzDuty Cycle (Max)100%Synchronous RectifierYesClock SyncNoSerial Interfaces-Control FeaturesCurrent Limit, Enable	Output Type	Transistor Driver
Topology  Number of Outputs  1  Output Phases  1  Voltage - Supply (Vcc/Vdd)  Frequency - Switching  Duty Cycle (Max)  Synchronous Rectifier  Clock Sync  Serial Interfaces  Control Features  Buck  1  0  Buck  1  0  No  6.5 V ~ 14.4 V  6.5 V ~ 14.4 V  600kHz  No  600kHz  Limit, Enable	Function	Step-Down
Number of Outputs  Output Phases  1  Voltage - Supply (Vcc/Vdd)  Frequency - Switching  Outy Cycle (Max)  Synchronous Rectifier  Clock Sync  No  Serial Interfaces  -  Control Features  1  0.5 V ~ 14.4 V  6.5 V ~ 14.4 V  600kHz  100%  No  Synchronous Rectifier  Yes  Clock Sync  No  Current Limit, Enable	Output Configuration	Positive
Output Phases  1 Voltage - Supply (Vcc/Vdd) 6.5 V ~ 14.4 V  Frequency - Switching 600kHz  Duty Cycle (Max) 100%  Synchronous Rectifier Yes Clock Sync No Serial Interfaces - Control Features Current Limit, Enable	Topology	Buck
Voltage - Supply (Vcc/Vdd)  Frequency - Switching  600kHz  Duty Cycle (Max)  Synchronous Rectifier  Clock Sync  No  Serial Interfaces  Control Features  6.5 V ~ 14.4 V  600kHz  No  100%  Ves  Courrent Limit, Enable	Number of Outputs	1
Frequency - Switching 600kHz  Duty Cycle (Max) 100%  Synchronous Rectifier Yes  Clock Sync No  Serial Interfaces -  Control Features Current Limit, Enable	Output Phases	1
Duty Cycle (Max)  Synchronous Rectifier  Yes  Clock Sync  No  Serial Interfaces  Control Features  Current Limit, Enable	Voltage - Supply (Vcc/Vdd)	6.5 V ~ 14.4 V
Synchronous Rectifier Yes Clock Sync No Serial Interfaces - Control Features Current Limit, Enable	Frequency - Switching	600kHz
Clock Sync No Serial Interfaces - Control Features Current Limit, Enable	Duty Cycle (Max)	100%
Serial Interfaces - Control Features Current Limit, Enable	Synchronous Rectifier	Yes
Control Features Current Limit, Enable	Clock Sync	No
	Serial Interfaces	-
Operating Temperature $0^{\circ}\text{C} \sim 70^{\circ}\text{C} \text{ (TA)}$	Control Features	Current Limit, Enable
	Operating Temperature	$0^{\circ}\text{C} \sim 70^{\circ}\text{C} \text{ (TA)}$
Package / Case 10-VFDFN Exposed Pad	Package / Case	10-VFDFN Exposed Pad
Supplier Device Package 10-DFN (3x3)	Supplier Device Package	10-DFN (3x3)
Report error		Report errors?

### **ISL8105ACRZ-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.

### **ISL8105ACRZ-T Payment Methods**



















### **ISL8105ACRZ-T Shipping Methods**













If you have any question about ISL8105ACRZ-T, please do not hesitate to contact us!

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