

# ISL80102IRAJZ-T7A

### ISL80102IRAJZ-T7A Information

Part Number ISL80102IRAJZ-T7A

ManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)

PMIC - Voltage Regulators - Linear

**Description** IC REG LINEAR POS ADJ 2A 10DFN

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



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# ISL80102IRAJZ-T7A Specifications

Manufacturer Part Number         ISL80102IRAJZ-T7A           Manufacturer         Renesas Electronics America           Category         Integrated Circuits (ICs)           Package         10-VFDFN Exposed Pad           Series         -           Output Configuration         Positive           Output Type         Adjustable           Number of Regulators         1           Voltage - Input (Max)         6V           Voltage - Output (Min/Fixed)         0.8V           Voltage - Output (Max)         5V           Voltage Dropout (Max)         0.121V @ 2A           Current - Output         2A           Current - Quiescent (Iq)         9mA           Current - Supply (Max)         12mA           PSRR         62dB ~ 55dB (120Hz ~ 1kHz)           Control Features         Enable, Power Good, Soft Start           Protection Features         Over Temperature, Short Circuit           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         10-VFDFN Exposed Pad           Supplier Device Package         10-DFN (3x3)	•	
Category         Integrated Circuits (ICs)           PMIC - Voltage Regulators - Linear           Package         10-VFDFN Exposed Pad           Series         -           Output Configuration         Positive           Output Type         Adjustable           Number of Regulators         1           Voltage - Input (Max)         6V           Voltage - Output (Min/Fixed)         0.8V           Voltage - Output (Max)         5V           Voltage Dropout (Max)         0.121V @ 2A           Current - Output         2A           Current - Quiescent (Iq)         9mA           Current - Supply (Max)         12mA           PSRR         62dB ~ 55dB (120Hz ~ 1kHz)           Control Features         Enable, Power Good, Soft Start           Protection Features         Over Temperature, Short Circuit           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         10-VFDFN Exposed Pad           Supplier Device Package         10-DFN (3x3)	Manufacturer Part Number	ISL80102IRAJZ-T7A
Package 10-VFDFN Exposed Pad  Series - Output Configuration Positive Output Type Adjustable Number of Regulators 1 Voltage - Input (Max) 6V Voltage - Output (Min/Fixed) 0.8V Voltage - Output (Max) 5V Voltage Dropout (Max) 0.121V @ 2A Current - Output Quiescent (Iq) 9mA Current - Supply (Max) 12mA PSRR 62dB ~ 55dB (120Hz ~ 1kHz) Control Features Over Temperature, Short Circuit Operating Temperature 40°C ~ 125°C Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	Manufacturer	Renesas Electronics America
Package         10-VFDFN Exposed Pad           Series         -           Output Configuration         Positive           Output Type         Adjustable           Number of Regulators         1           Voltage - Input (Max)         6V           Voltage - Output (Min/Fixed)         0.8V           Voltage - Output (Max)         5V           Voltage Dropout (Max)         0.121V @ 2A           Current - Output         2A           Current - Quiescent (Iq)         9mA           Current - Supply (Max)         12mA           PSRR         62dB ~ 55dB (120Hz ~ 1kHz)           Control Features         Enable, Power Good, Soft Start           Protection Features         Over Temperature, Short Circuit           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount           Package / Case         10-VFDFN Exposed Pad           Supplier Device Package         10-DFN (3x3)	Category	Integrated Circuits (ICs)
Series - Output Configuration Positive Output Type Adjustable Number of Regulators 1 Voltage - Input (Max) 6V Voltage - Output (Min/Fixed) 0.8V Voltage - Output (Max) 5V Voltage Dropout (Max) 0.121V @ 2A Current - Output (Aux) 2A Current - Quiescent (Iq) 9mA Current - Supply (Max) 12mA PSRR 62dB ~ 55dB (120Hz ~ 1kHz) Control Features Over Temperature, Short Circuit Operating Temperature -40°C ~ 125°C Mounting Type Surface Mount Package / Case 10-DFN (3x3)		PMIC - Voltage Regulators - Linear
Output ConfigurationPositiveOutput TypeAdjustableNumber of Regulators1Voltage - Input (Max)6VVoltage - Output (Min/Fixed)0.8VVoltage - Output (Max)5VVoltage Dropout (Max)0.121V @ 2ACurrent - Output2ACurrent - Quiescent (Iq)9mACurrent - Supply (Max)12mAPSRR62dB ~ 55dB (120Hz ~ 1kHz)Control FeaturesEnable, Power Good, Soft StartProtection FeaturesOver Temperature, Short CircuitOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case10-VFDFN Exposed PadSupplier Device Package10-DFN (3x3)	Package	10-VFDFN Exposed Pad
Output TypeAdjustableNumber of Regulators1Voltage - Input (Max)6VVoltage - Output (Min/Fixed)0.8VVoltage - Output (Max)5VVoltage Dropout (Max)0.121V @ 2ACurrent - Output2ACurrent - Quiescent (Iq)9mACurrent - Supply (Max)12mAPSRR62dB ~ 55dB (120Hz ~ 1kHz)Control FeaturesEnable, Power Good, Soft StartProtection FeaturesOver Temperature, Short CircuitOperating Temperature-40°C ~ 125°CMounting TypeSurface MountPackage / Case10-VFDFN Exposed PadSupplier Device Package10-DFN (3x3)	Series	-
Number of Regulators  Voltage - Input (Max)  Voltage - Output (Min/Fixed)  Voltage - Output (Max)  Voltage - Output (Max)  Voltage Dropout (Max)  Voltage Dropout (Max)  Current - Output  2A  Current - Quiescent (Iq)  9mA  Current - Supply (Max)  12mA  PSRR  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  Enable, Power Good, Soft Start  Protection Features  Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package	Output Configuration	Positive
Voltage - Input (Max)  Voltage - Output (Min/Fixed)  Voltage - Output (Max)  Voltage - Output (Max)  Voltage Dropout (Max)  Voltage Dropout (Max)  Current - Output  2A  Current - Quiescent (Iq)  9mA  Current - Supply (Max)  12mA  PSRR  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package	Output Type	Adjustable
Voltage - Output (Min/Fixed)  Voltage - Output (Max)  5V  Voltage Dropout (Max)  0.121V @ 2A  Current - Output  2A  Current - Quiescent (Iq)  9mA  Current - Supply (Max)  12mA  PSRR  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  Enable, Power Good, Soft Start  Protection Features  Over Temperature, Short Circuit  Operating Temperature  40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package	Number of Regulators	1
Voltage - Output (Max)  Voltage Dropout (Max)  0.121V @ 2A  Current - Output  2A  Current - Quiescent (Iq)  9mA  Current - Supply (Max)  12mA  PSRR  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  Enable, Power Good, Soft Start  Protection Features  Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package	Voltage - Input (Max)	6V
Voltage Dropout (Max)  Current - Output  2A  Current - Quiescent (Iq)  9mA  Current - Supply (Max)  12mA  PSRR  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  Enable, Power Good, Soft Start  Protection Features  Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package	Voltage - Output (Min/Fixed)	0.8V
Current - Output  Current - Quiescent (Iq)  9mA  Current - Supply (Max)  PSRR  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  Enable, Power Good, Soft Start  Protection Features  Over Temperature, Short Circuit  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package	Voltage - Output (Max)	5V
Current - Quiescent (Iq)  Current - Supply (Max)  12mA  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  Enable, Power Good, Soft Start  Protection Features  Over Temperature, Short Circuit  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package	Voltage Dropout (Max)	0.121V @ 2A
Current - Supply (Max)  PSRR  62dB ~ 55dB (120Hz ~ 1kHz)  Control Features  Enable, Power Good, Soft Start  Over Temperature, Short Circuit  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package	Current - Output	2A
PSRR 62dB ~ 55dB (120Hz ~ 1kHz) Control Features Enable, Power Good, Soft Start  Protection Features Over Temperature, Short Circuit -40°C ~ 125°C  Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	Current - Quiescent (Iq)	9mA
Control Features  Enable, Power Good, Soft Start  Over Temperature, Short Circuit  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package  10-DFN (3x3)	Current - Supply (Max)	12mA
Protection Features Over Temperature, Short Circuit -40°C ~ 125°C  Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	PSRR	62dB ~ 55dB (120Hz ~ 1kHz)
Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount  Package / Case  10-VFDFN Exposed Pad  Supplier Device Package  10-DFN (3x3)	Control Features	Enable, Power Good, Soft Start
Mounting Type Surface Mount Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	Protection Features	Over Temperature, Short Circuit
Package / Case 10-VFDFN Exposed Pad Supplier Device Package 10-DFN (3x3)	Operating Temperature	-40°C ~ 125°C
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?

#### ISL80102IRAJZ-T7A 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.

### ISL80102IRAJZ-T7A Payment Methods



















## ISL80102IRAJZ-T7A Shipping Methods













If you have any question about ISL80102IRAJZ-T7A, please do not hesitate to contact us!

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