

### **ISL5957IA Information**



For Reference Only

Part Number ISL5957IA

Manufacturer Renesas Electronics America
Category Integrated Circuits (ICs)

Data Acquisition - Digital to Analog Converters

(DAC)

**Description** IC DAC 14-BIT 260MSPS 28-TSSOP **Package** 28-TSSOP (0.173", 4.40mm Width)

For the pricing/inventory/lead time, please contact

us

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



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# **ISL5957IA Specifications**

Manufacturer Part NumberISL5957IAManufacturerRenesas Electronics AmericaCategoryIntegrated Circuits (ICs)Data Acquisition - Digital to Analog Converters (DAC)Package28-TSSOP (0.173", 4.40mm Width)Series-Number of Bits14Number of D/A Converters1Settling Time-Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceParallelReference TypeExternal, InternalVoltage - Supply, Analog2.7 V ~ 3.6 VVoltage - Supply, Digital2.7 V ~ 3.6 VINL/DNL (LSB)±2.5, ±1.5ArchitectureCurrent SourceOperating Temperature-40°C ~ 85°CPackage / Case28-TSSOP (0.173", 4.40mm Width)		
Category  Integrated Circuits (ICs)  Data Acquisition - Digital to Analog Converters (DAC)  Package  28-TSSOP (0.173", 4.40mm Width)  Series  - Number of Bits  14  Number of D/A Converters  1  Settling Time  Output Type  Current - Unbuffered  Differential Output  Yes  Data Interface  Parallel  Reference Type  External, Internal  Voltage - Supply, Analog  2.7 V ~ 3.6 V  Voltage - Supply, Digital  2.7 V ~ 3.6 V  INL/DNL (LSB)  42.5, ±1.5  Architecture  Operating Temperature	Manufacturer Part Number	ISL5957IA
Data Acquisition - Digital to Analog Converters (DAC)  Package 28-TSSOP (0.173", 4.40mm Width)  Series -  Number of Bits 14  Number of D/A Converters 1  Settling Time -  Output Type Current - Unbuffered  Differential Output Yes  Data Interface Parallel  Reference Type External, Internal  Voltage - Supply, Analog 2.7 V ~ 3.6 V  Voltage - Supply, Digital 2.7 V ~ 3.6 V  INL/DNL (LSB) ±2.5, ±1.5  Architecture Current Source  Operating Temperature -40°C ~ 85°C	Manufacturer	Renesas Electronics America
Package $28\text{-TSSOP}$ (0.173", 4.40mm Width)Series-Number of Bits14Number of D/A Converters1Settling Time-Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceParallelReference TypeExternal, InternalVoltage - Supply, Analog $2.7 \text{ V} \sim 3.6 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 3.6 \text{ V}$ INL/DNL (LSB) $\pm 2.5, \pm 1.5$ ArchitectureCurrent SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Category	Integrated Circuits (ICs)
Series         -           Number of Bits         14           Number of D/A Converters         1           Settling Time         -           Output Type         Current - Unbuffered           Differential Output         Yes           Data Interface         Parallel           Reference Type         External, Internal           Voltage - Supply, Analog         2.7 V ~ 3.6 V           Voltage - Supply, Digital         2.7 V ~ 3.6 V           INL/DNL (LSB)         ±2.5, ±1.5           Architecture         Current Source           Operating Temperature         -40°C ~ 85°C		Data Acquisition - Digital to Analog Converters (DAC)
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Settling Time - Output Type Current - Unbuffered  Differential Output Yes  Data Interface Parallel  Reference Type External, Internal  Voltage - Supply, Analog $2.7 \text{ V} \sim 3.6 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 3.6 \text{ V}$ INL/DNL (LSB) $\pm 2.5, \pm 1.5$ Architecture Current Source  Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Number of Bits	14
Output TypeCurrent - UnbufferedDifferential OutputYesData InterfaceParallelReference TypeExternal, InternalVoltage - Supply, Analog $2.7 \text{ V} \sim 3.6 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 3.6 \text{ V}$ INL/DNL (LSB) $\pm 2.5, \pm 1.5$ ArchitectureCurrent SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Number of D/A Converters	1
Differential OutputYesData InterfaceParallelReference TypeExternal, InternalVoltage - Supply, Analog $2.7 \text{ V} \sim 3.6 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 3.6 \text{ V}$ INL/DNL (LSB) $\pm 2.5, \pm 1.5$ ArchitectureCurrent SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Settling Time	-
Data InterfaceParallelReference TypeExternal, InternalVoltage - Supply, Analog $2.7 \text{ V} \sim 3.6 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 3.6 \text{ V}$ INL/DNL (LSB) $\pm 2.5, \pm 1.5$ ArchitectureCurrent SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Output Type	Current - Unbuffered
Reference TypeExternal, InternalVoltage - Supply, Analog $2.7 \text{ V} \sim 3.6 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 3.6 \text{ V}$ INL/DNL (LSB) $\pm 2.5, \pm 1.5$ ArchitectureCurrent SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Differential Output	Yes
Voltage - Supply, Analog $2.7 \text{ V} \sim 3.6 \text{ V}$ Voltage - Supply, Digital $2.7 \text{ V} \sim 3.6 \text{ V}$ INL/DNL (LSB) $\pm 2.5, \pm 1.5$ ArchitectureCurrent SourceOperating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Data Interface	Parallel
Voltage - Supply, Digital 2.7 V $\sim$ 3.6 V INL/DNL (LSB) $\pm$ 2.5, $\pm$ 1.5 Architecture Current Source Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Reference Type	External, Internal
INL/DNL (LSB) $\pm 2.5, \pm 1.5$ Architecture Current Source Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Voltage - Supply, Analog	2.7 V ~ 3.6 V
Architecture Current Source  Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	Voltage - Supply, Digital	2.7 V ~ 3.6 V
Operating Temperature $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$	INL/DNL (LSB)	$\pm 2.5, \pm 1.5$
	Architecture	Current Source
Package / Case 28-TSSOP (0.173", 4.40mm Width)	Operating Temperature	-40°C ~ 85°C
	Package / Case	28-TSSOP (0.173", 4.40mm Width)
Supplier Device Package 28-TSSOP	Supplier Device Package	28-TSSOP
Mounting Type Surface Mount	Mounting Type	Surface Mount
Report errors		Report errors?

### **ISL5957IA 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.



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We guarantee 100% customer satisfaction.

Our experienced sales team and tech support team back our services to satisfy all our customers.

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### **ISL5957IA Shipping Methods**













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