



SI8431BB-D-ISR Information



For Reference Only

Part NumberSI8431BB-D-ISRManufacturerSilicon LabsCategoryIsolators

Digital Isolators

Description DGTL ISO 2.5KV GEN PURP 16SOIC **Package** 16-SOIC (0.295", 7.50mm Width)

For the pricing/inventory/lead time, please contact

us

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



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SI8431BB-D-ISR Specifications

Manufacturer Part NumberSI8431BB-D-ISRManufacturerSilicon LabsCategoryIsolatorsPackage16-SOIC (0.295", 7.50mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels3Inputs - Side 1/Side 22/1Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)25kV/μs (Typ)Data Rate150MbpsPropagation Delay tpLH / tpHL (Max)9.5ns, 9.5nsPulse Width Distortion (Max)2.5nsRise / Fall Time (Typ)3.8ns, 2.8ns		
Category Isolators Digital Isolators Package 16-SOIC (0.295", 7.50mm Width) Series Automotive, AEC-Q100 Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Isolators Digital Isolators Levius 1500mm Width Automotive, AEC-Q100 Capacitive Coupling General Purpose Unidirectional 2/1 Unidirectional 2/1 2/1 150Mbps Propagation Delay tpLH / tpHL (Max) P.5ns, 9.5ns	Manufacturer Part Number	SI8431BB-D-ISR
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Type General Purpose Isolated Power No Number of Channels 3 Inputs - Side 1/Side 2 2/1 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/µs (Typ) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) 9.5ns, 9.5ns Pulse Width Distortion (Max) 2.5ns	Series	Automotive, AEC-Q100
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Number of Channels3Inputs - Side 1/Side 22/1Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)25kV/μs (Typ)Data Rate150MbpsPropagation Delay tpLH / tpHL (Max)9.5ns, 9.5nsPulse Width Distortion (Max)2.5ns	Туре	General Purpose
Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) 2/1 Unidirectional 2500Vrms 1500Vrms 25kV/\mus (Typ) 150Mbps 9.5ns, 9.5ns	Isolated Power	No
Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/µs (Typ) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) 9.5ns, 9.5ns Pulse Width Distortion (Max) 2.5ns	Number of Channels	3
Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) 2500Vrms 25kV/µs (Typ) 150Mbps 9.5ns, 9.5ns 2.5ns	Inputs - Side 1/Side 2	2/1
Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) 25kV/µs (Typ) 150Mbps 9.5ns, 9.5ns 2.5ns	Channel Type	Unidirectional
Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) 9.5ns, 9.5ns Pulse Width Distortion (Max) 2.5ns	Voltage - Isolation	2500Vrms
Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) 9.5ns, 9.5ns 2.5ns	Common Mode Transient Immunity (Min)	25kV/μs (Typ)
Pulse Width Distortion (Max) 2.5ns	Data Rate	150Mbps
	Propagation Delay tpLH / tpHL (Max)	9.5ns, 9.5ns
Rise / Fall Time (Typ) 3.8ns, 2.8ns	Pulse Width Distortion (Max)	2.5ns
	Rise / Fall Time (Typ)	3.8ns, 2.8ns
Voltage - Supply $2.7 \text{ V} \sim 5.5 \text{ V}$	Voltage - Supply	2.7 V ~ 5.5 V
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	Operating Temperature	-40°C ~ 125°C
Package / Case 16-SOIC (0.295", 7.50mm Width)	Package / Case	16-SOIC (0.295", 7.50mm Width)
Supplier Device Package 16-SOIC	Supplier Device Package	16-SOIC
Report errors?		Report errors?

SI8431BB-D-ISR 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.

SI8431BB-D-ISR Payment Methods



















SI8431BB-D-ISR Shipping Methods













If you have any question about SI8431BB-D-ISR, please do not hesitate to contact us!

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