



SI8431BB-D-IS1R Information

Part Number SI8431BB-D-IS1R

Manufacturer Silicon Labs Category

Isolators

Digital Isolators

Description

DGTL ISO 2.5KV GEN PURP 16SOIC

Package 16-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

Website: https://www.heisener.com

E-mail: salesdept@heisener.com



Request a Quote

Certified Quality

For Reference Only

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.









SI8431BB-D-IS1R Specifications

Manufacturer Part Number \$18431BB-D-ISTR Manufacturer \$115con Labs Category Isolators Package 16-SOIC (0.154", 3.90mm Width) Series Automotive, AEC-Q100 Technology Capacitive Coupling 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 Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature 40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC		
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Isolated 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, 2.8nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Technology	Capacitive Coupling
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Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Isolated Power	No
Channel Type Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Number of Channels	3
Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/ μ s (Typ) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) 9.5ns, 9.5ns Pulse Width Distortion (Max) 2.5ns Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC	Inputs - Side 1/Side 2	2/1
Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Channel Type	Unidirectional
Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) 9.5ns, 9.5ns Pulse Width Distortion (Max) 2.5ns Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC	Voltage - Isolation	2500Vrms
Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2.5ns 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Common Mode Transient Immunity (Min)	25kV/µs (Typ)
Pulse Width Distortion (Max) Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package	Data Rate	150Mbps
Rise / Fall Time (Typ) $3.8 \text{ns}, 2.8 \text{ns}$ Voltage - Supply $2.7 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case 16-SOIC (0.154° , 3.90mm Width)Supplier Device Package 16-SOIC	Propagation Delay tpLH / tpHL (Max)	9.5ns, 9.5ns
Voltage - Supply $ 2.7 \text{ V} \sim 5.5 \text{ V} $ Operating Temperature $ -40^{\circ}\text{C} \sim 125^{\circ}\text{C} $ Package / Case $ 16\text{-SOIC} (0.154^{\circ}\text{H}, 3.90 \text{mm Width}) $ Supplier Device Package $ 16\text{-SOIC} $	Pulse Width Distortion (Max)	2.5ns
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC	Rise / Fall Time (Typ)	3.8ns, 2.8ns
Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC	Voltage - Supply	2.7 V ~ 5.5 V
Supplier Device Package 16-SOIC	Operating Temperature	-40°C ~ 125°C
	Package / Case	16-SOIC (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	16-SOIC
		Report errors?

SI8431BB-D-IS1R 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-IS1R Payment Methods



















SI8431BB-D-IS1R Shipping Methods













If you have any question about SI8431BB-D-IS1R, please do not hesitate to contact us!

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