



SI8430BB-C-IS1 Information

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For Reference Only

Part Number SI8430BB-C-IS1
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

us

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SI8430BB-C-IS1 Specifications

| Manufacturer Part Number Manufacturer Silicon Labs Silicon Labs Isolators Digital Isolators Package Package 16-SOIC (0.154", 3.90mm Width) Series Automotive, AEC-Q100 Technology 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) Rise / Fall Time (Typ) 3.818, 2.8ns | | |
|--|--------------------------------------|--------------------------------|
| Category Isolators Digital 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 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) Rise / Fall Time (Typ) Isolators Automotive, AEC-Q100 Capacitive Coupling General Purpose Isolator Voluming Unidirectional 2500Vrms | Manufacturer Part Number | SI8430BB-C-IS1 |
| Digital 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 3/0 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 | Manufacturer | Silicon Labs |
| 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 3/0 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 | Category | Isolators |
| Series Automotive, AEC-Q100 Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 3 Inputs - Side 1/Side 2 3/0 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) Rise / Fall Time (Typ) 3.8ns, 2.8ns | | Digital Isolators |
| Technology 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) Rise / Fall Time (Typ) General Purpose General Purpose Unidirectional 25/00Vrms 25/ | Package | 16-SOIC (0.154", 3.90mm Width) |
| Type 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) Rise / Fall Time (Typ) General Purpose No Voltage - Solation 2 3/0 Unidirectional 2 500Vrms 2 500Vrms 2 5kV/μs (Typ) 2 5kV/μs (Typ) 3 5ns, 9.5ns 2 5ns 3 3/0 2 5ns 3 70 2 5ns 4 70 2 | Series | Automotive, AEC-Q100 |
| Isolated Power 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) Rise / Fall Time (Typ) No No No No No 150 Possion 1 3/0 Unidirectional 2500Vrms 2500Vrms 25kV/µs (Typ) 150Mbps 9.5ns, 9.5ns 9.5ns, 9.5ns 2.5ns | Technology | Capacitive Coupling |
| Number of Channels 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) Rise / Fall Time (Typ) 3/0 Unidirectional 2500Vrms 25kV/µs (Typ) 9.5ns, 9.5ns 9.5ns, 9.5ns 3.8ns, 2.8ns | Type | 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) Rise / Fall Time (Typ) 3/0 Unidirectional 2500Vrms 25kV/µs (Typ) 9.5ns, 9.5ns 9.5ns, 9.5ns 3.8ns, 2.8ns | Isolated Power | No |
| Channel Type Unidirectional Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Unidirectional 2500Vrms 25kV/µs (Typ) 9.5ns, 9.5ns 9.5ns, 9.5ns 3.8ns, 2.8ns | Number of Channels | 3 |
| Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2500Vrms 2500Vrms 25kV/µs (Typ) 9.5ns, 9.5ns 9.5ns 3.8ns, 2.8ns | Inputs - Side 1/Side 2 | 3/0 |
| Common Mode Transient Immunity (Min) Data Rate 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 25kV/µs (Typ) 9.5ns, 9.5ns 9.5ns, 9.5ns 3.8ns, 2.8ns | 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 - Isolation | 2500Vrms |
| Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 9.5ns, 9.5ns 2.5ns 3.8ns, 2.8ns | Common Mode Transient Immunity (Min) | 25kV/μs (Typ) |
| Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2.5ns 3.8ns, 2.8ns | Data Rate | 150Mbps |
| Rise / Fall Time (Typ) 3.8ns, 2.8ns | Propagation Delay tpLH / tpHL (Max) | 9.5ns, 9.5ns |
| | Pulse Width Distortion (Max) | 2.5ns |
| 2.1 | Rise / Fall Time (Typ) | 3.8ns, 2.8ns |
| Voltage - Supply 2.7 V ~ 5.5 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 (0.154", 3.90mm Width) | Package / Case | 16-SOIC (0.154", 3.90mm Width) |
| Supplier Device Package 16-SOIC | Supplier Device Package | 16-SOIC |
| Report errors' | | Report errors? |

SI8430BB-C-IS1 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.

SI8430BB-C-IS1 Payment Methods





















SI8430BB-C-IS1 Shipping Methods













If you have any question about SI8430BB-C-IS1, please do not hesitate to contact us!

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