



SI8441AB-D-IS1R Information

Part Number SI8441AB-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

us

For Reference Only

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



Request a Quote

Certified Quality

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.









SI8441AB-D-IS1R Specifications

| Manufacturer Part Number \$18441AB-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 4 Inputs - Side I/Side 2 3/1 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/µs (Typ) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns 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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| 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 4 Inputs - Side 1/Side 2 3/1 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/µs (Typ) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns 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 | Manufacturer Part Number | SI8441AB-D-IS1R |
| Package 16-SOIC (0.154", 3.90mm Width) Series Automotive, AEC-Q100 Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 4 Inputs - Side 1/Side 2 3/1 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/µs (Typ) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns 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 | Manufacturer | Silicon Labs |
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| SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels4Inputs - Side 1/Side 2 $3/1$ Channel TypeUnidirectionalVoltage - Isolation $2500Vrms$ Common Mode Transient Immunity (Min) $25kV/\mu s$ (Typ)Data Rate $1Mbps$ Propagation Delay tpLH / tpHL (Max) $35ns$, $35ns$ Pulse Width Distortion (Max) $25ns$ Rise / Fall Time (Typ) $3.8ns$, $2.8ns$ Voltage - Supply $2.7 V \sim 5.5 V$ Operating Temperature $-40^{\circ}C \sim 125^{\circ}C$ Package / Case $16-SOIC$ (0.154° , $3.90mm$ Width)Supplier Device Package $16-SOIC$ | | Digital Isolators |
| TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels4Inputs - Side 1/Side 23/1Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)25kV/μs (Typ)Data Rate1MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)25nsRise / 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 | Package | 16-SOIC (0.154", 3.90mm Width) |
| Type General Purpose Isolated Power No Number of Channels 4 Inputs - Side 1/Side 2 3/1 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/µs (Typ) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns 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 | Series | Automotive, AEC-Q100 |
| Isolated PowerNoNumber of Channels4Inputs - Side 1/Side 23/1Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)25kV/μs (Typ)Data Rate1MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)25nsRise / 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 |
| Number of Channels4Inputs - Side 1/Side 23/1Channel TypeUnidirectionalVoltage - Isolation2500VrmsCommon Mode Transient Immunity (Min)25kV/μs (Typ)Data Rate1MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)25nsRise / 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 | Туре | General Purpose |
| Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) Data Rate 1Mbps 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) 25kV/µs (Typ) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 25ns Pulse Width Distortion (Max) 25ns 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 | Number of Channels | 4 |
| Voltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) 25kV/ μ s (Typ) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns 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 | 3/1 |
| Common Mode Transient Immunity (Min) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 25ns Pulse Width Distortion (Max) 25ns 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 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns 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) 35ns, 35ns Pulse Width Distortion (Max) 25ns 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 | 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 -40°C ~ 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package | Data Rate | 1Mbps |
| Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply 2.7 V \sim 5.5 V Operating Temperature -40°C \sim 125°C Package / Case 16-SOIC (0.154", 3.90mm Width) Supplier Device Package 16-SOIC | Propagation Delay tpLH / tpHL (Max) | 35ns, 35ns |
| 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}, 3.90 \text{mm Width}) $ Supplier Device Package $ 16\text{-SOIC} $ | Pulse Width Distortion (Max) | 25ns |
| 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? |

SI8441AB-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.

SI8441AB-D-IS1R Payment Methods



















SI8441AB-D-IS1R Shipping Methods













If you have any question about SI8441AB-D-IS1R, please do not hesitate to contact us!

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