



SI8422AD-D-ISR Information



For Reference Only

Part Number SI8422AD-D-ISR Manufacturer Silicon Labs Category Isolators

Digital Isolators

Description DGTL ISO 5KV 2CH 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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SI8422AD-D-ISR Specifications

Manufacturer Part Number \$18422AD-D-ISR Manufacturer Silicon Labs Category 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 2 Inputs - Side 1/Side 2 1/1 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 20kV/µs Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 2.7 V ~ 5.5 V Operating Temperature 40°C ~ 125°C Package / Case 16-SOIC (0.295", 7.50mm Width) Supplier Device Package 16-SOIC		
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Package16-SOIC (0.295", 7.50mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels2Inputs - Side 1/Side 21/1Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)20kV/μsData Rate1MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)	Category	Isolators
SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels2Inputs - Side 1/Side 21/1Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)20kV/µsData Rate1MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)		Digital Isolators
TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels2Inputs - Side 1/Side 21/1Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)20kV/μsData Rate1MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)	Package	16-SOIC (0.295", 7.50mm Width)
Type General Purpose Isolated Power No No Number of Channels 2 Inputs - Side 1/Side 2 1/1 Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 20kV/ μ s Data Rate 1Mbps 15hs 35hs 35hs Pulse Width Distortion (Max) 25hs Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16hs 3000 Signal Signal Pulse Width)	Series	Automotive, AEC-Q100
Isolated PowerNoNumber of Channels2Inputs - Side 1/Side 2 $1/1$ Channel TypeUnidirectionalVoltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) $20kV/\mu s$ Data Rate $1Mbps$ Propagation Delay tpLH / tpHL (Max) $35ns, 35ns$ Pulse Width Distortion (Max) $25ns$ Rise / Fall Time (Typ) $2ns, 2ns$ Voltage - Supply $2.7 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC (0.295", 7.50mm Width)}$	Technology	Capacitive Coupling
Number of Channels2Inputs - Side 1/Side 2 $1/1$ Channel TypeUnidirectionalVoltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) $20kV/\mu s$ Data Rate $1Mbps$ Propagation Delay tpLH / tpHL (Max) $35ns, 35ns$ Pulse Width Distortion (Max) $25ns$ Rise / Fall Time (Typ) $2ns, 2ns$ Voltage - Supply $2.7 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC (0.295", 7.50mm Width)}$	Type	General Purpose
Inputs - Side 1/Side 2	Isolated Power	No
Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)20kV/μsData Rate1MbpsPropagation Delay tpLH / tpHL (Max)35ns, 35nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2ns, 2nsVoltage - Supply2.7 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)	Number of Channels	2
Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 20kV/µs Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.295", 7.50mm Width)	Inputs - Side 1/Side 2	1/1
Common Mode Transient Immunity (Min) 20kV/ μ s Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.295", 7.50mm Width)	Channel Type	Unidirectional
Data Rate Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply Operating Temperature Package / Case 16-SOIC (0.295", 7.50mm Width)	Voltage - Isolation	5000Vrms
Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply Operating Temperature Package / Case 25ns 27 V ~ 5.5 V -40°C ~ 125°C 16-SOIC (0.295", 7.50mm Width)	Common Mode Transient Immunity (Min)	$20kV/\mu s$
Pulse Width Distortion (Max) Rise / Fall Time (Typ) 2ns, 2ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC (0.295", 7.50mm Width)	Data Rate	1Mbps
Rise / Fall Time (Typ) $2ns, 2ns$ Voltage - Supply $2.7 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC } (0.295^{\circ}, 7.50 \text{mm Width)}$	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 } (0.295^{\circ}\text{, 7.50mm Width}) $	Pulse Width Distortion (Max)	25ns
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case 16-SOIC (0.295", 7.50mm Width)	Rise / Fall Time (Typ)	2ns, 2ns
Package / Case 16-SOIC (0.295", 7.50mm Width)	Voltage - Supply	2.7 V ~ 5.5 V
•	Operating Temperature	-40°C ~ 125°C
Supplier Device Package 16-SOIC	Package / Case	16-SOIC (0.295", 7.50mm Width)
	Supplier Device Package	16-SOIC
Report errors?		Report errors?

SI8422AD-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.

SI8422AD-D-ISR Payment Methods



















SI8422AD-D-ISR Shipping Methods













If you have any question about SI8422AD-D-ISR, please do not hesitate to contact us!

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