



SI8450AA-A-IS1 Information

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For Reference Only

Part Number SI8450AA-A-IS1
Manufacturer Silicon Labs
Category Isolators

Digital Isolators

Description DGTL ISO 1KV 5CH GEN PURP 16SOIC

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

For the pricing/inventory/lead time, please contact

us

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



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SI8450AA-A-IS1 Specifications

Manufacturer Part Number S18450AA-A-IS1 Manufacturer Silicon Labs Category Isolators Package 16-SOIC (0.154", 3.90mm Width) Series - Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 5 Inputs - Side 1/Side 2 5/0 Channel Type Unidirectional Voltage - Isolation 1000Vrms 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 16-SOIC (0.154", 3.90mm Width)		
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Isolated Power Number of Channels Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate IMbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Package / Case No Unidirectional Unidirectional 1000Vrms 1000Vrms 25kV/µs (Typ) 1000Vrms 25kV/µs (Typ) 35ns, 35ns 25ns 25ns 35ns, 2.8ns 40°C ~ 125°C 16-SOIC (0.154", 3.90mm Width)	Technology	Capacitive Coupling
Number of Channels5Inputs - Side 1/Side 2 $5/0$ Channel TypeUnidirectionalVoltage - Isolation 1000Vrms Common Mode Transient Immunity (Min) $25 \text{kV}/\mu\text{s}$ (Typ)Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) $35 \text{ns}, 35 \text{ns}$ Pulse Width Distortion (Max) 25ns 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 $16-\text{SOIC}$ (0.154° , 3.90mm Width)	Type	General Purpose
Inputs - Side 1/Side 2 $5/0$ Channel TypeUnidirectionalVoltage - Isolation $1000Vrms$ 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)	Isolated Power	No
Channel Type Unidirectional Voltage - Isolation 1000Vrms 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 Unidirectional 1000Vrms 25kV/µs (Typ) 35ns, 35ns 35ns, 35ns 25ns 16-SOIC (0.154", 3.90mm Width)	Number of Channels	5
Voltage - Isolation Common Mode Transient Immunity (Min) Data Rate 1Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Package / Case 1000Vrms 1000Vrms 1	Inputs - Side 1/Side 2	5/0
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)	Channel Type	Unidirectional
Data Rate Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Package / Case 1Mbps 35ns, 35ns 25ns 3.8ns, 2.8ns 2.7 V ~ 5.5 V -40°C ~ 125°C 16-SOIC (0.154", 3.90mm Width)	Voltage - Isolation	1000Vrms
Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) 25ns Voltage - Supply 2.7 V ~ 5.5 V Operating Temperature Package / Case 16-SOIC (0.154", 3.90mm Width)	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)	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)	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", 3.90mm Width)} $	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)	Rise / Fall Time (Typ)	3.8ns, 2.8ns
Package / Case 16-SOIC (0.154", 3.90mm Width)	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	Supplier Device Package	16-SOIC
Report errors?		Report errors?

SI8450AA-A-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.

SI8450AA-A-IS1 Payment Methods



















SI8450AA-A-IS1 Shipping Methods













If you have any question about SI8450AA-A-IS1, please do not hesitate to contact us!

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