



SI8430AB-C-IS1R Information

Part Number SI8430AB-C-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



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SI8430AB-C-IS1R Specifications

Manufacturer Part Number Si8430AB-C-IS1R Manufacturer Silicon 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 3/0 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)		
CategoryIsolatorsPackage16-SOIC (0.154", 3.90mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels3Inputs - Side 1/Side 23/0Channel 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°C	Manufacturer Part Number	SI8430AB-C-IS1R
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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) Propagation Delay tpLH / tpHL (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Capacitive Coupling General Purpose Autority General Purpose No 23 Autority Autori	Package	16-SOIC (0.154", 3.90mm Width)
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 IMbps Propagation Delay tpLH / tpHL (Max) 35ns, 35ns Pulse Width Distortion (Max) 25ns Rise / Fall Time (Typ) 3.8ns, 2.8ns Voltage - Supply Operating Temperature -40°C ~ 125°C	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 1Mbps Propagation Delay tpLH / tpHL (Max) Propagation Delay tpLH / tpHL (Max) Rise / Fall Time (Typ) Operating Temperature No Unidirectional Unidirectional Unidirectional Voltage - Supply 2500Vrms 25kV/µs (Typ) 1Mbps 35ns, 35ns 25ns 27 V ~ 5.5 V -40°C ~ 125°C	Technology	Capacitive Coupling
Number of Channels3Inputs - Side 1/Side 2 $3/0$ Channel TypeUnidirectionalVoltage - Isolation 2500Vrms Common Mode Transient Immunity (Min) $25k \text{V}/\mu \text{s}$ (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 $2.7 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	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) Voltage - Supply Operating Temperature 3/0 Unidirectional 250Vrms 250Vrms 25kV/µs (Typ) 35ns, 35ns 25ns 38ns, 2.8ns 25ns -40°C ~ 125°C	Isolated Power	No
Channel Type Unidirectional 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	Number of Channels	3
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	Inputs - Side 1/Side 2	3/0
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	Channel Type	Unidirectional
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°C	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 $2.7 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	Common Mode Transient Immunity (Min)	25kV/µs (Typ)
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 $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	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	Propagation Delay tpLH / tpHL (Max)	35ns, 35ns
Voltage - Supply $2.7 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	Pulse Width Distortion (Max)	25ns
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$	Rise / Fall Time (Typ)	3.8ns, 2.8ns
	Voltage - Supply	2.7 V ~ 5.5 V
Package / Case 16-SOIC (0.154", 3.90mm Width)	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?

SI8430AB-C-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.

SI8430AB-C-IS1R Payment Methods



















SI8430AB-C-IS1R Shipping Methods













If you have any question about SI8430AB-C-IS1R, please do not hesitate to contact us!

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