



#### SI8461BA-A-IS1R Information

Part Number SI8461BA-A-IS1R

Manufacturer Silicon Labs Category

Isolators

**Digital Isolators** 

**Description** 

DGTL ISO 1KV 6CH GEN PURP 16SOIC

Package

16-SOIC (0.154", 3.90mm Width)

For the pricing/inventory/lead time, please contact

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



Request a Quote

# **Certified Quality**

For Reference Only

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.









# SI8461BA-A-IS1R Specifications

Manufacturer Part Number         \$18461BA-A-IS1R           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         6           Inputs - Side I/Side 2         5/1           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           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           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		
Category         Isolators           Package         16-SOIC (0.154", 3.90mm Width)           Series         -           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         6           Inputs - Side 1/Side 2         5/1           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           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           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	SI8461BA-A-IS1R
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Series         -           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         6           Inputs - Side 1/Side 2         5/1           Channel Type         Unidirectional           Voltage - Isolation         1000Vrms           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           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		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) Propagation Delay tpLH / tpHL (Max)  Rise / Fall Time (Typ)  Voltage - Supply Operating Temperature Package / Case  16-SOIC Capacitive Coupling General Purpose  No  Ano  Ano  Ano  Ano  Ano  Ano  Ano	Package	16-SOIC (0.154", 3.90mm Width)
Type General Purpose  Isolated Power No Number of Channels 6 Inputs - Side 1/Side 2 5/1 Channel Type Unidirectional  Voltage - Isolation 1000Vrms  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  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	-
Isolated Power No Number of Channels 6 Inputs - Side 1/Side 2 5/1 Channel Type Unidirectional Voltage - Isolation 1000Vrms Common Mode Transient Immunity (Min) 25kV/ $\mu$ s (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 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	Technology	Capacitive Coupling
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Channel Type Voltage - Isolation 1000Vrms 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 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	6
Voltage - Isolation 1000Vrms  Common Mode Transient Immunity (Min) 25kV/ $\mu$ s (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  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	5/1
Common Mode Transient Immunity (Min)  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 - 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 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 - 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	1000Vrms
Propagation Delay tpLH / tpHL (Max)  9.5ns, 9.5ns  Pulse Width Distortion (Max)  2.5ns  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)
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Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ $(0.154^{\circ}\text{H}, 3.90\text{mm Width})$ Supplier Device Package $16\text{-SOIC}$	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?

#### SI8461BA-A-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.

## SI8461BA-A-IS1R Payment Methods



















## SI8461BA-A-IS1R Shipping Methods













If you have any question about SI8461BA-A-IS1R, please do not hesitate to contact us!

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