



#### SI8651ED-B-ISR Information



For Reference Only

Part NumberSI8651ED-B-ISRManufacturerSilicon LabsCategoryIsolators

**Digital Isolators** 

**Description** DGTL ISO 5KV 5CH 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



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.









## SI8651ED-B-ISR Specifications

Manufacturer Part Number         \$18651ED-B-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         5           Inputs - Side 1/Side 2         4/1           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         35kV/µs           Data Rate         150Mbps           Propagation Delay tpLH / tpHL (Max)         13ns, 13ns           Pulse Width Distortion (Max)         4.5ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.5 V ~ 5.5 V           Operating Temperature         40°C ~ 125°C           Package / Case         16-SOIC (0.295", 7.50mm Width)		
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         5           Inputs - Side 1/Side 2         4/1           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         35kV/µs           Data Rate         150Mbps           Propagation Delay tpLH / tpHL (Max)         13ns, 13ns           Pulse Width Distortion (Max)         4.5ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 125°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Manufacturer Part Number	SI8651ED-B-ISR
Package         16-SOIC (0.295", 7.50mm Width)           Series         Automotive, AEC-Q100           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         5           Inputs - Side 1/Side 2         4/1           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         35kV/μs           Data Rate         150Mbps           Propagation Delay tpLH / tpHL (Max)         13ns, 13ns           Pulse Width Distortion (Max)         4.5ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 125°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Manufacturer	Silicon Labs
Package         16-SOIC (0.295", 7.50mm Width)           Series         Automotive, AEC-Q100           Technology         Capacitive Coupling           Type         General Purpose           Isolated Power         No           Number of Channels         5           Inputs - Side 1/Side 2         4/1           Channel Type         Unidirectional           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         35kV/μs           Data Rate         150Mbps           Propagation Delay tpLH / tpHL (Max)         13ns, 13ns           Pulse Width Distortion (Max)         4.5ns           Rise / Fall Time (Typ)         2.5ns, 2.5ns           Voltage - Supply         2.5 V ~ 5.5 V           Operating Temperature         -40°C ~ 125°C           Package / Case         16-SOIC (0.295", 7.50mm Width)           Supplier Device Package         16-SOIC	Category	Isolators
SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels5Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-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 150Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature -40°C ~ 125°C Package / Case 16-SOIC Capacitive Coupling Capacitive Coupling Central Purpose A/1  A/1  A/1  Channel Type Unidirectional  5000Vrms 5000Vrms 1300Vrms 1300Vrms 1300Vrms 2500Vrms 250Vrms 2500Vrms 2500Vrms 2500Vrms 2500Vrms 2500Vrms 2500Vrms 250Vrms 250V	Package	16-SOIC (0.295", 7.50mm Width)
TypeGeneral PurposeIsolated PowerNoNumber of Channels5Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/μsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC	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  150Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  Voltage - Supply  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC  No  4/1  Unidirectional  Volidirectional  5000Vrms  1300Vrms  130	Technology	Capacitive Coupling
Number of Channels5Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/μsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.295", 7.50mm Width)Supplier Device Package16-SOIC	Туре	General Purpose
Inputs - Side 1/Side 2  Channel Type  Unidirectional  Voltage - Isolation  5000Vrms  Common Mode Transient Immunity (Min)  Data Rate  150Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.5ns, 2.5ns  Voltage - Supply  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Isolated Power	No
Channel Type  Voltage - Isolation  Common Mode Transient Immunity (Min)  Data Rate  Data Rate  150Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  Voltage - Supply  Operating Temperature  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Number of Channels	5
Voltage - Isolation 5000Vrms  Common Mode Transient Immunity (Min) 35kV/ $\mu$ s  Data Rate 150Mbps  Propagation Delay tpLH / tpHL (Max) 13ns, 13ns  Pulse Width Distortion (Max) 4.5ns  Rise / Fall Time (Typ) 2.5ns, 2.5ns  Voltage - Supply 2.5 V ~ 5.5 V  Operating Temperature -40°C ~ 125°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package 16-SOIC	Inputs - Side 1/Side 2	4/1
Common Mode Transient Immunity (Min)  Data Rate  150Mbps  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.5ns, 2.5ns  Voltage - Supply  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Channel Type	Unidirectional
Data Rate 150Mbps  Propagation Delay tpLH / tpHL (Max) 13ns, 13ns  Pulse Width Distortion (Max) 4.5ns  Rise / Fall Time (Typ) 2.5ns, 2.5ns  Voltage - Supply 2.5 V ~ 5.5 V  Operating Temperature -40°C ~ 125°C  Package / Case 16-SOIC (0.295", 7.50mm Width)  Supplier Device Package 16-SOIC	Voltage - Isolation	5000Vrms
Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.5ns, 2.5ns  Voltage - Supply  Operating Temperature  Package / Case  16-SOIC (0.295", 7.50mm Width)  13ns, 13ns  4.5ns  2.5ns, 2.5ns  2.5ns, 2.5ns  16-SOIC (0.295", 7.50mm Width)	Common Mode Transient Immunity (Min)	35kV/µs
Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  2.5ns, 2.5ns  Voltage - Supply  2.5 V ~ 5.5 V  Operating Temperature  -40°C ~ 125°C  Package / Case  16-SOIC (0.295", 7.50mm Width)  Supplier Device Package	Data Rate	150Mbps
Rise / Fall Time (Typ) $2.5 \text{ ns}, 2.5 \text{ ns}$ Voltage - Supply $2.5 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.295", 7.50mm Width)Supplier Device Package $16\text{-SOIC}$	Propagation Delay tpLH / tpHL (Max)	13ns, 13ns
Voltage - Supply $2.5 \text{ V} \sim 5.5 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC} \ (0.295^{\circ}\text{, 7.50mm Width})$ Supplier Device Package $16\text{-SOIC}$	Pulse Width Distortion (Max)	4.5ns
Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $16\text{-SOIC}$ (0.295", 7.50mm Width) Supplier Device Package $16\text{-SOIC}$	Rise / Fall Time (Typ)	2.5ns, 2.5ns
Package / Case 16-SOIC (0.295", 7.50mm Width) Supplier Device Package 16-SOIC	Voltage - Supply	2.5 V ~ 5.5 V
Supplier Device Package 16-SOIC	Operating Temperature	-40°C ~ 125°C
	Package / Case	16-SOIC (0.295", 7.50mm Width)
D	Supplier Device Package	16-SOIC
Report errors?		Report errors?

#### SI8651ED-B-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.

### SI8651ED-B-ISR Payment Methods



















### SI8651ED-B-ISR Shipping Methods













If you have any question about SI8651ED-B-ISR, please do not hesitate to contact us!

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