



SI88220ED-ISR Information

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For Reference Only

Part NumberSI88220ED-ISRManufacturerSilicon LabsCategoryIsolators

Digital Isolators

Description DGTL ISO 5KV 2CH GEN PURP 16SOIC

Package -

For the pricing/inventory/lead time, please contact

us

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SI88220ED-ISR Specifications

Manufacturer Part Number \$188220ED-ISR Manufacturer Silicon Labs Category Isolators Package - Series Automotive, AEC-Q100 Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 2 Inputs - Side 1/Side 2 20 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/µs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 12.6ns, 17.5ns (Typ) Pulse Width Distortion (Max) 4.8ns (Typ) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package -		
Category Isolators Package - Series Automotive, AEC-Q100 Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 2 Inputs - Side 1/Side 2 2/0 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/µs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 12.6ns, 17.5ns (Typ) Pulse Width Distortion (Max) 4.8ns (Typ) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package -	Manufacturer Part Number	SI88220ED-ISR
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Technology Capacitive Coupling Type General Purpose Isolated Power No Number of Channels 2 Inputs - Side 1/Side 2 2/0 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/μs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 12.6ns, 17.5ns (Typ) Pulse Width Distortion (Max) 4.8ns (Typ) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package -	Package	-
Type General Purpose Isolated Power No Number of Channels 2 Inputs - Side 1/Side 2 2/0 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/µs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 12.6ns, 17.5ns (Typ) Pulse Width Distortion (Max) 4.8ns (Typ) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package	Series	Automotive, AEC-Q100
Isolated PowerNoNumber of Channels2Inputs - Side 1/Side 22/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)40kV/μsData Rate100MbpsPropagation Delay tpLH / tpHL (Max)12.6ns, 17.5ns (Typ)Pulse Width Distortion (Max)4.8ns (Typ)Rise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case-Supplier Device Package-	Technology	Capacitive Coupling
Number of Channels2Inputs - Side 1/Side 22/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)40kV/μsData Rate100MbpsPropagation Delay tpLH / tpHL (Max)12.6ns, 17.5ns (Typ)Pulse Width Distortion (Max)4.8ns (Typ)Rise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case-Supplier Device Package-	Туре	General Purpose
Inputs - Side 1/Side 2 Channel Type Unidirectional Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Rise / Fall Time (Typ) Operating Temperature -40°C ~ 125°C Package / Case Supplier Device Package - 2/0 Unidirectional 40kV/µs 100Mbps 40kV/µs 40	Isolated Power	No
Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)40kV/μsData Rate100MbpsPropagation Delay tpLH / tpHL (Max)12.6ns, 17.5ns (Typ)Pulse Width Distortion (Max)4.8ns (Typ)Rise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case-Supplier Device Package-	Number of Channels	2
Voltage - Isolation 5000Vrms Common Mode Transient Immunity (Min) 40kV/μs Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 12.6ns, 17.5ns (Typ) Pulse Width Distortion (Max) 4.8ns (Typ) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package -	Inputs - Side 1/Side 2	2/0
Common Mode Transient Immunity (Min) Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Supplier Device Package 40kV/µs 100Mbps 12.6ns, 17.5ns (Typ) 4.8ns (Typ) 2.5ns, 2.5ns 3 V ~ 5.5 V -40°C ~ 125°C -40°C ~ 125°C	Channel Type	Unidirectional
Data Rate 100Mbps Propagation Delay tpLH / tpHL (Max) 12.6ns, 17.5ns (Typ) Pulse Width Distortion (Max) 4.8ns (Typ) Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package -	Voltage - Isolation	5000Vrms
Propagation Delay tpLH / tpHL (Max) Pulse Width Distortion (Max) Rise / Fall Time (Typ) Voltage - Supply Operating Temperature Propagation Delay tpLH / tpHL (Max) 4.8ns (Typ) 2.5ns, 2.5ns 3 V ~ 5.5 V -40°C ~ 125°C Package / Case Supplier Device Package -	Common Mode Transient Immunity (Min)	40kV/μs
Pulse Width Distortion (Max)4.8ns (Typ)Rise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply3 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case-Supplier Device Package-	Data Rate	100Mbps
Rise / Fall Time (Typ) 2.5ns, 2.5ns Voltage - Supply 3 V ~ 5.5 V Operating Temperature -40°C ~ 125°C Package / Case - Supplier Device Package -	Propagation Delay tpLH / tpHL (Max)	12.6ns, 17.5ns (Typ)
Voltage - Supply $3\ V \sim 5.5\ V$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Package / Case $-$ Supplier Device Package $-$	Pulse Width Distortion (Max)	4.8ns (Typ)
Operating Temperature-40°C ~ 125°CPackage / Case-Supplier Device Package-	Rise / Fall Time (Typ)	2.5ns, 2.5ns
Package / Case - Supplier Device Package -	Voltage - Supply	3 V ~ 5.5 V
Supplier Device Package -	Operating Temperature	-40°C ~ 125°C
	Package / Case	-
Report errors?	Supplier Device Package	-
		Report errors?

SI88220ED-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.

SI88220ED-ISR Payment Methods



















SI88220ED-ISR Shipping Methods













If you have any question about SI88220ED-ISR, please do not hesitate to contact us!

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