

SI8651EC-B-IS1

SI8651EC-B-IS1 Information



For Reference Only

rt Number	SI8651EC-B-IS1
nufacturer	Silicon Labs
tegory	Isolators Digital Isolators
scription	DGTL ISO 3.75KV GEN PURP 16SOIC
ckage	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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SI8651EC-B-IS1 Specifications

ManufacturerSilicon LabsCategoryIsolatorsPackageDigital IsolatorsPackage16-SOIC (0.154", 3.90mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels5Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation350VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsRise / Fall Time (Typ)2.5 V ~ 5.5 VOperating Temperature40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)		
CategoryIsolatorsPackage16-SOIC (0.154", 3.90mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels5Inputs - Side 1/Side 2UnidirectionalVoltage - Isolation3750VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate150MbpsPupagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsRise / Fall Time (Typ)2.5 v ~ 5.5 VOperating Temperature40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)	Manufacturer Part Number	SI8651EC-B-IS1
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SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels5Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation3750VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsRise / Fall Time (Typ)2.5 V ~ 5.5 VOperating Temperature44°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC		Digital Isolators
TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels5Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation3750VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsRise / Fall Time (Typ)2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)	Package	16-SOIC (0.154", 3.90mm Width)
TypeGeneral PurposeIsolated PowerNoNumber of Channels5Inputs - Side 1/Side 2//1Channel TypeUnidirectionalVoltage - Isolation3750VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPuse Width Distortion (Max)2.5 x - 5.5 xNotage - Supply.25 x - 5.5 xOperating Temperature4.0°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)	Series	Automotive, AEC-Q100
Isolated PowerNoNumber of Channels5Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation3750VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsRise / Fall Time (Typ)2.5 N < 5.5 V	Technology	Capacitive Coupling
Number of Channels5Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation3750VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate150MbpsPropagation Delay tpLH / tpHL (Max)13ns, 13nsPulse Width Distortion (Max)4.5nsKise / Fall Time (Typ)2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Туре	General Purpose
Inputs - Side 1/Side 24/1Inputs - Side 1/Side 24/1Channel TypeUnidirectionalVoltage - Isolation3750VrmsCommon 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 (0.154", 3.90mm Width)	Isolated Power	No
Channel TypeUnidirectionalChannel Type3750VrmsVoltage - Isolation3750VrmsCommon 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 (0.154", 3.90mm Width)	Number of Channels	5
Voltage - Isolation3750VrmsCommon 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 (0.154", 3.90mm Width)	Inputs - Side 1/Side 2	4/1
Common 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 (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Channel Type	Unidirectional
Data 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 (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Voltage - Isolation	3750Vrms
Propagation 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 (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Common Mode Transient Immunity (Min)	35kV/µs
Pulse 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 (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Data Rate	150Mbps
Rise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Propagation Delay tpLH / tpHL (Max)	13ns, 13ns
Voltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Pulse Width Distortion (Max)	4.5ns
Operating Temperature-40°C ~ 125°CPackage / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Rise / Fall Time (Typ)	2.5ns, 2.5ns
Package / Case16-SOIC (0.154", 3.90mm Width)Supplier Device Package16-SOIC	Voltage - Supply	2.5 V ~ 5.5 V
Supplier Device Package 16-SOIC	Operating Temperature	-40°C ~ 125°C
	Package / Case	16-SOIC (0.154", 3.90mm Width)
Report errors?	Supplier Device Package	16-SOIC
		Report errors?

SI8651EC-B-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 EUARANTEE

Service Guarantees

We guarantee 100% customer satisfaction. Our experienced sales team and tech support team back our services to satisfy all our customers.

SI8651EC-B-IS1 Payment Methods



SI8651EC-B-IS1 Shipping Methods



If you have any question about SI8651EC-B-IS1, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com