

### SI8715BD-A-ISR

#### SI8715BD-A-ISR Information



Number	S18/15BD-A-15K	
ufacturer	Silicon Labs	
egory	Isolators Digital Isolators	
ription	DGTL ISO 5KV 1CH GEN PURP 6DIPGW	
kage	6-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**

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.



#### SI8715BD-A-ISR Specifications

ManufacturerSilicon LabsCategoryIsolatorsPackage6-SOIC (0.295", 7.50mm Width)Package6-SOIC (0.295", 7.50mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels1Inputs - Side 1/Side 21/0Channel TypeSolo0VrmsCommon Mode Transient Immunity (Min)StkV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5 Ns, 2.5 NsVoltage - Supply.6 SOIC (0.295", 7.50mm Width)		
CategoryIsolatorsPackage6-SOIC (0.295", 7.50mm Width)Package6-SOIC (0.295", 7.50mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels1Inputs - Side 1/Side 21/0Channel TypeSoloVrmsVoltage - IsolationSoloVrmsCommon Mode Transient Immunity (Min)StkVµsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)Sons, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6.SDIF Gull Wing	Manufacturer Part Number	SI8715BD-A-ISR
Digital IsolatorsPackage6-SOIC (0.295", 7.50mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels1Inputs - Side 1/Side 21/0Channel TypeSo00VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SDIF Gull Wing	Manufacturer	Silicon Labs
Package- SOIC (0.295", 7.50mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels1Inputs - Side 1/Side 21/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5 tv ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SDIP Gull Wing	Category	Isolators
SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingTypeGeneral PurposeIsolated PowerNoNumber of Channels1Inputs - Side 1/Side 21/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5 N ~ 5.5 VVoltage - Supply-40°C ~ 125°CPackage / Case6-SDIP Gull Wing		Digital Isolators
Technology Capacitive Coupling   Type General Purpose   Isolated Power No   Number of Channels 1   Inputs - Side 1/Side 2 1/0   Channel Type Unidirectional   Ottage - Isolation 5000Vrms   Common Mode Transient Immunity (Min) 35kV/μs   Data Rate 15Mbps   Propagation Delay tpLH / tpHL (Max) 50ns, 50ns   Pulse Width Distortion (Max) 25ns   Rise / Fall Time (Typ) 2.5 Ns, 2.5 ns   Voltage - Supply 40°C ~ 125°C   Package / Case 6-SOIIC (0.295", 7.50mm Width)	Package	6-SOIC (0.295", 7.50mm Width)
Type General Purpose   Isolated Power No   Number of Channels 1   Inputs - Side 1/Side 2 1/0   Channel Type Unidirectional   Voltage - Isolation 5000Vrms   Common Mode Transient Immunity (Min) 5kV/µs   Data Rate 15Mbps   Propagation Delay tpLH / tpHL (Max) 50ns, 50ns   Pulse Width Distortion (Max) 25ns   Rise / Fall Time (Typ) 2.5 V ~ 5.5 V   Operating Temperature -40°C ~ 125°C   Package / Case 6-SDIP Gull Wing	Series	Automotive, AEC-Q100
Isolated Power No   Number of Channels 1   Inputs - Side 1/Side 2 1/0   Channel Type Unidirectional   Voltage - Isolation 5000Vrms   Common Mode Transient Immunity (Min) 5kV/µs   Data Rate 15Mbps   Propagation Delay tpLH / tpHL (Max) 50ns, 50ns   Pulse Width Distortion (Max) 25ns   Rise / Fall Time (Typ) 2.5 V ~ 5.5 V   Operating Temperature -40°C ~ 125°C   Package / Case 6-SDIF Gull Wing	Technology	Capacitive Coupling
Number of Channels1Inputs - Side 1/Side 21/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsXoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SDIF Gull Wing	Туре	General Purpose
Inputs - Side 1/Side 21/0Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5 ns, 2.5 nsVoltage - Supply-40°C ~ 125°CPackage / Case6-SDIP Gull Wing	Isolated Power	No
Channel TypeUnidirectionalVoltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SDIP Gull Wing	Number of Channels	1
Voltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)35kV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Inputs - Side 1/Side 2	1/0
Common Mode Transient Immunity (Min)35kV/µsData Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Channel Type	Unidirectional
Data Rate15MbpsPropagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Voltage - Isolation	5000Vrms
Propagation Delay tpLH / tpHL (Max)50ns, 50nsPulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Common Mode Transient Immunity (Min)	35kV/µs
Pulse Width Distortion (Max)25nsRise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Data Rate	15Mbps
Rise / Fall Time (Typ)2.5ns, 2.5nsVoltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Propagation Delay tpLH / tpHL (Max)	50ns, 50ns
Voltage - Supply2.5 V ~ 5.5 VOperating Temperature-40°C ~ 125°CPackage / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Pulse Width Distortion (Max)	25ns
Operating Temperature-40°C ~ 125°CPackage / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Rise / Fall Time (Typ)	2.5ns, 2.5ns
Package / Case6-SOIC (0.295", 7.50mm Width)Supplier Device Package6-SDIP Gull Wing	Voltage - Supply	2.5 V ~ 5.5 V
Supplier Device Package 6-SDIP Gull Wing	Operating Temperature	-40°C ~ 125°C
	Package / Case	6-SOIC (0.295", 7.50mm Width)
Report errors?	Supplier Device Package	6-SDIP Gull Wing
		Report errors?

#### SI8715BD-A-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 BUARANTEE

#### **Service Guarantees**

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

#### SI8715BD-A-ISR Payment Methods



#### SI8715BD-A-ISR Shipping Methods



If you have any question about SI8715BD-A-ISR, please do not hesitate to contact us! Website: https://www.heisener.com E-mail: salesdept@heisener.com