



### SI8238BD-D-ISR Information



For Reference Only

Part Number SI8238BD-D-ISR Manufacturer Silicon Labs

**Category** Isolators

Isolators - Gate Drivers

**Description** DGTL ISO 5KV 2CH GATE DVR 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



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# **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.









# SI8238BD-D-ISR Specifications

Manufacturer         S18238BD-D-ISR           Manufacturer         Silicon Labs           Category         Isolators           Package         16-SOIC (0.295", 7.50mm Width)           Series         Automotive, AEC-Q100           Technology         Capacitive Coupling           Number of Channels         2           Voltage - Isolation         5000Vrms           Common Mode Transient Immunity (Min)         20kV/µs           Propagation Delay tpLH / tpHL (Max)         60ns, 60ns           Pulse Width Distortion (Max)         5.6ns           Rise / Fall Time (Typ)         12ns, 12ns (Max)           Current - Output High, Low         2A, 4A           Current - Peak Output         4A           Voltage - Forward (Vf) (Typ)         -           Current - DC Forward (If) (Max)         -           Voltage - Supply         9.4 V ~ 24 V           Operating Temperature         -40°C ~ 125°C           Mounting Type         Surface Mount		
CategoryIsolatorsPackage16-SOIC (0.295", 7.50mm Width)SeriesAutomotive, AEC-Q100TechnologyCapacitive CouplingNumber of Channels2Voltage - Isolation5000VrmsCommon Mode Transient Immunity (Min)20kV/µsPropagation Delay tpLH / tpHL (Max)60ns, 60nsPulse Width Distortion (Max)5.6nsRise / Fall Time (Typ)12ns, 12ns (Max)Current - Output High, Low2A, 4ACurrent - Peak Output4AVoltage - Forward (Vf) (Typ)-Current - DC Forward (If) (Max)-Voltage - Supply9.4 V ~ 24 VOperating Temperature-40°C ~ 125°CMounting TypeSurface Mount	Manufacturer Part Number	SI8238BD-D-ISR
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Number of Channels  Voltage - Isolation  5000Vrms  Common Mode Transient Immunity (Min)  Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  12ns, 12ns (Max)  Current - Output High, Low  2A, 4A  Current - Peak Output  Voltage - Forward (Vf) (Typ)  - Current - DC Forward (If) (Max)  Voltage - Supply  Operating Temperature  40°C ~ 125°C  Mounting Type  Surface Mount	Series	Automotive, AEC-Q100
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Propagation Delay tpLH / tpHL (Max)  Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  12ns, 12ns (Max)  Current - Output High, Low  2A, 4A  Current - Peak Output  4A  Voltage - Forward (Vf) (Typ)  - Current - DC Forward (If) (Max)  Voltage - Supply  9.4 V ~ 24 V  Operating Temperature  4O°C ~ 125°C  Mounting Type  60ns, 60ns  60ns  60ns  60ns  60ns  60ns  60ns  60ns  60ns  62ns  62n	Voltage - Isolation	5000Vrms
Pulse Width Distortion (Max)  Rise / Fall Time (Typ)  12ns, 12ns (Max)  2A, 4A  Current - Output High, Low  4A  Voltage - Forward (Vf) (Typ)  - Current - DC Forward (If) (Max)  Voltage - Supply  9.4 V ~ 24 V  Operating Temperature  40°C ~ 125°C  Mounting Type  5.6ns  12ns, 12ns (Max)  2A, 4A  4A  Voltage - Supply  - Current - Peak Output  4A  Surface Mount	Common Mode Transient Immunity (Min)	20kV/μs
Rise / Fall Time (Typ)  Current - Output High, Low  2A, 4A  Current - Peak Output  4A  Voltage - Forward (Vf) (Typ)  - Current - DC Forward (If) (Max)  Voltage - Supply  Operating Temperature  Mounting Type  12ns, 12ns (Max)  2A, 4A	Propagation Delay tpLH / tpHL (Max)	60ns, 60ns
Current - Output High, Low 2A, 4A  Current - Peak Output 4A  Voltage - Forward (Vf) (Typ) -  Current - DC Forward (If) (Max) -  Voltage - Supply 9.4 V ~ 24 V  Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount	Pulse Width Distortion (Max)	5.6ns
Current - Peak Output  Voltage - Forward (Vf) (Typ)  - Current - DC Forward (If) (Max)  Voltage - Supply  Operating Temperature  Mounting Type  4A	Rise / Fall Time (Typ)	12ns, 12ns (Max)
Voltage - Forward (Vf) (Typ) - Current - DC Forward (If) (Max) - Voltage - Supply 9.4 V ~ 24 V Operating Temperature -40°C ~ 125°C Mounting Type Surface Mount	Current - Output High, Low	2A, 4A
Current - DC Forward (If) (Max)  Voltage - Supply  Operating Temperature  -40°C ~ 125°C  Mounting Type  Surface Mount	Current - Peak Output	4A
Voltage - Supply $9.4 \text{ V} \sim 24 \text{ V}$ Operating Temperature $-40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ Mounting TypeSurface Mount	Voltage - Forward (Vf) (Typ)	-
Operating Temperature -40°C ~ 125°C  Mounting Type Surface Mount	Current - DC Forward (If) (Max)	-
Mounting Type Surface Mount	Voltage - Supply	9.4 V ~ 24 V
	Operating Temperature	-40°C ~ 125°C
Package / Case 16-SOIC (0.295" 7.50mm Width)	Mounting Type	Surface Mount
Tu-Sole (0.253, 7.30iiiii Widti)	Package / Case	16-SOIC (0.295", 7.50mm Width)
Supplier Device Package 16-SOIC	Supplier Device Package	16-SOIC
Approvals CQC, CSA, UR, VDE	Approvals	CQC, CSA, UR, VDE
Report errors?		Report errors?

#### SI8238BD-D-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.

## SI8238BD-D-ISR Payment Methods



















## **SI8238BD-D-ISR Shipping Methods**













If you have any question about SI8238BD-D-ISR, please do not hesitate to contact us!

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