



product details.

**Energy Micro (Silicon Labs)** 



Image may be representation. See specifications for

### SI8442BB-D-IS

Part Number:

Manufacturer/Brand:

Product description Datasheets:

RoHs Status

Ship From

Shipment Way

SI8442BB-D-IS

Energy Micro (Silicon Labs)

DGTL ISO 2.5KV GEN PURP 16SOIC

SI8442BB-D-IS.pdf Lead free / RoHS Compliant

Hong Kong

DHL/Fedex/TNT/UPS/EMS

**REQUEST FOR QUOTATION** 

PART NUMBER  \$18442BB-D-15  MANUFACTURER  Energy Micro (Silcon Labs)  DESCRIPTION  DESTRIPS O 2.5KV GEN PURP 1650IC  LEAD FREE STATUS / ROHS STATUS  LEAD FREE DEVICE PACKAGE  16-SOIC  SERIES  - RISE / FALL TIME (TYP)  28-86, 2-86s  PROPAGATION DELAY TPLH / TPHL (MAX)  9.5ns, 9.5ns  PROPAGATION DELAY TPLH / TPHL (MAX)  9.5ns, 9.5ns  PACKAGING  TUBE  PACKAGING  TUBE  AUMES  COPERATING TEMPERATURE  40°C ~ 125°C  NUMBER OF CHANNELS  MOUNTING TYPE  MOUSTING TEMPERATURE  40°C ~ 125°C  NUMBER OF CHANNELS  MOUNTING TYPE  MOUSTING TYPE  MOUSTING TYPE  MOUNTING TYPE  MOUNT		Specifications of SI8442BB-D-IS
MANUFACTURER         Energy Micro (Silicon Labs)           DESCRIPTION         DGTL ISO 2.5KV GEN PURP 16SOIC           LEAD FREE STATUS / ROHS STATUS         Lead free / RoHS Compilant           DATA SHEET         \$184428B-D-IS.pdf           VOLTAGE - SUPPLY         2.7 V ≈ 5.5 V           VOLTAGE - ISOLATION         2500Vms           TYPE         General Purpose           TECHNOLOGY         Capacitive Coupling           SUPPLIER DEVICE PACKAGE         16-SOIC           SERIES         -           RISE / FALL TIME (TYP)         3.8ns 2.8ns           PULSE WIDTH DISTORTION (MAX)         2.5ns           PACKAGING         Tube           PACKAGING         16-SOIC (0.295°, 7.50mm Width)           PACKAGE / CASE         16-SOIC (0.295°, 7.50mm Width)           OTHER NAMES         336-1764-5           OFFERATING TEMPERATURE         40°C ~ 125°C           NUMBER OF CHANNELS         4           MOUNTING TYPE         Surface Mount           MOISTURE SENSITIVITY LEVEL (MSL)         24 (4 Weeks)           LEAD FREE STATUS / ROHS STATUS         Lead free / ROHS Compliant           ISOLATED POWER         No           DETAILED DESCRIPTION         Ceneral Purpose Digital Isolator 2500Vrms 4 Channel 150Mpp 25kV/µs (Typ) CMT 1.6-SOIC (0.295°		
DESCRIPTION         DOTI. ISO 2.5KY CEN PURP 16SOIC           LEAD FREE STATUS / ROHS STATUS         Lead free / RoHS Compliant           DATA SHEET         Sign 818428B-D15.pdf           VOLTAGE - SUPPLY         2.7 V ~ 5.5 V           VOLTAGE - ISOLATION         2500Vms           TYPE         General Purpose           TECHNOLOGY         Capacitive Coupling           SUPPLIER DEVICE PACKAGE         16-SOIC           SERIES         -           RISE / FALL TIME (TYP)         3.8ns, 2.8ns           PULSE WIDTH DISTORTION (MAX)         2.5ns           PROPACATION DELAY TPLH / TPHL (MAX)         9.5ns, 9.5ns           PACKAGING         Tube           PACKAGE / CASE         16-SOIC (0.295*, 7.50mm Width)           OTHER NAMES         3184428BDIS           OPERATING TEMPERATURE         40°C ~ 125°C           NUMBER OF CHANNELS         4           MOUNTING TYPE         SURFACE MOUNT           MOISTURE SENSITIVITY LEVEL (MSL)         24 (4 Weeks)           LEAD FREE STATUS / ROHS STATUS         Lead free / RoHS Compliant           ISOLATED POWER         No           DITT ISOM DESCRIPTION         7.50mm Width)           STATA RATE         150Mbps	PART NUMBER	SI8442BB-D-IS
LEAD FREE STATUS / ROHS STATUS       Lead free / RoHS Compliant         DATA SHEET       \$1844288-D-18.pdf         VOLTAGE - SUPPLY       2.7 ∨ ~ 5.5 ∨         VOLTAGE - ISOLATION       2500Vrms         TYPE       General Purpose         TECHNOLOGY       Capacitive Coupling         SUPPLIER DEVICE PACKAGE       16-SOIC         SERIES       -         RISE / FALL TIME (TYP)       3.8ns, 2.8ns         PULSE WIDTH DISTORTION (MAX)       2.5ns         PROPAGATION DELAY TPLH / TPHL (MAX)       9.5ns, 9.5ns         PACKAGE / CASE       16-SOIC (0.295°, 7.50mm Width)         OTHER NAMES       3.61-1764-5         OPERATING TEMPERATURE       40°C ~ 125°C         NUMBER OF CHANNELS       4         MOUNTING TYPE       Surface Mount         MOISTURE SENSITIVITY LEVEL (MSL)       2A (4 Weeks)         LEAD FREE STATUS / ROHS STATUS       Lead free / RoHS Compliant         ISOLATE D POWER       No         EINPUTS - SIDE I/SIDE 2       2/2         DETAILED DESCRIPTION       General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295°, 7.50mm Width)	MANUFACTURER	Energy Micro (Silicon Labs)
DATA SHEET         SISH428B-D-IS,pdf           VOLTAGE - SUPPLY         2.7 V ~ 5.5 V           VOLTAGE - ISOLATION         2500Vrms           TYPE         General Purpose           TECHNOLOGY         Capacitive Coupling           SUPPLIER DEVICE PACKAGE         16-SOIC           SERIES         -           RLSE / FALL TIME (TYP)         3.8ns, 2.8ns           PULSE WIDTH DISTORTION (MAX)         2.5ns           PROPAGATION DELAY TPLH / TPHL (MAX)         9.5ns, 9.5ns           PACKAGING         Tube           PACKAGE / CASE         16-SOIC (0.295°, 7.50mm Width)           OTHER NAMES         336-1764-5           OPERATING TEMPERATURE         40°C ~ 125°C           NUMBER OF CHANNELS         40°C ~ 125°C           MOUNTING TYPE         Surface Mount           MOISTURE SENSITIVITY LEVEL (MSL)         2A (4 Weeks)           LEAD FREE STATUS / ROHS STATUS         Lead free / ROHS Compilant           ISOLATED POWER         No           DETAILED DESCRIPTION         General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295°, 7.50mm Width)           DETAILED DESCRIPTION         150Mbps	DESCRIPTION	DGTL ISO 2.5KV GEN PURP 16SOIC
VOLTAGE - SUPPLY         2.7 V ~ 5.5 V           VOLTAGE - ISOLATION         2500Vms           TYPE         General Purpose           TECHNOLOGY         Capacitive Coupling           SUPPLIER DEVICE PACKAGE         16-SOIC           SERIES         -           RISE / FALL TIME (TYP)         3.8ns, 2.8ns           PULSE WIDTH DISTORTION (MAX)         2.5ns           PROPAGATION DELAY TPLH / TPHL (MAX)         9.5ns, 9.5ns           PACKAGING         Tube           PACKAGE / CASE         16-SOIC (0.295**, 7.50mm Width)           OTHER NAMES         336-1764-5 SIB44ZBBDIS           OPERATING TEMPERATURE         40°C × 125°C           NUMBER OF CHANNELS         4           MOUNTING TYPE         SUrface Mount           MOISTURE SENSITIVITY LEVEL (MSL)         2A (4 Weeks)           LEAD FREE STATUS / FORDS STATUS         Lead free / RHS Compliant           ISOLATED POWER         No           INPUTS - SIDE 1/SIDE 2         2/2           DETAILED DESCRIPTION         General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295**, 7.50mm Width)	LEAD FREE STATUS / ROHS STATUS	Lead free / RoHS Compliant
TYPE General Purpose TECHNOLOGY Capactive Coupling  TUPLIER DEVICE PACKAGE 16-SOIC  SERIES  RISE / FALL TIME (TYP) 3.8ns, 2.8ns  PULSE WIDTH DISTORTION (MAX) 2.5ns  PROPAGATION DELAY TPLH / TPHL (MAX) 3.9ns, 9.5ns  PACKAGING TUBE 16-SOIC (0.295°, 7.50mm Width) 16-SOIC (0.29	DATA SHEET	SI8442BB-D-IS.pdf
TECHNOLOGY Capactive Coupling  SUPPLIER DEVICE PACKAGE 16-SOIC  SERIES	VOLTAGE - SUPPLY	2.7 V ~ 5.5 V
TECHNOLOGY  SUPPLIER DEVICE PACKAGE  16-SOIC  SERIES  1-C  RISE / FALL TIME (TYP)  3.8ns, 2.8ns  POLSE WIDTH DISTORTION (MAX)  PROPAGATION DELAY TPLH / TPHL (MAX)  PACKAGEN  PACKAGEN  PACKAGEN  Tube  PACKAGE / CASE  16-SOIC (0.295", 7.50mm Width)  OTHER NAMES  OPERATING TEMPERATURE  A0°C ~ 125°C  NUMBER OF CHANNELS  MOUNTING TYPE  MOUNT TYPE  MOUNTING TYPE  MOUNT TYPE  MOUNTING TYPE  MOUNT TYPE  MOUNTING TYPE  MOUNTING TYPE  MOUNTING TYPE  MOUNTING TYP	VOLTAGE - ISOLATION	2500Vrms
SERIES - CALL TIME (TYP) 3.8ns, 2.8ns  PULSE WIDTH DISTORTION (MAX) 5.5ns  PROPAGATION DELAY TPLH / TPHL (MAX) 9.5ns, 9.5ns  PACKAGGING Tube  PACKAGGING 16-SOIC (0.295", 7.50mm Width)  OTHER NAMES 336-1764-5 318442BBDIS  OPERATING TEMPERATURE 40°C ~ 125°C  NUMBER OF CHANNELS 4  MOUNTING TYPE 5UNFACE MOUNT  MOISTURE SENSITIVITY LEVEL (MSL) 24 (4 Weeks)  LEAD FREE STATUS / ROHS STATUS Lead free / ROHS Compliant  ISOLATED POWER NO  INPUTS - SIDE 1/SIDE 2 /2  DETAILED DESCRIPTION 510MBPS  DISMAPS  SIMPLES EDSIGNED SENSITIVITY (TYP) CMITT 16-SOIC (0.295", 7.50mm Width)  DISMAPS DI	TYPE	General Purpose
RISE / FALL TIME (TYP)  RISE / FALL TIME (TYP)  3.8ns, 2.8ns  PUSE WIDTH DISTORTION (MAX)  2.5ns  PROPAGATION DELAY TPLH / TPHL (MAX)  9.5ns, 9.5ns  PACKAGING  PACKAGING  Tube  PACKAGE / CASE  16-SOIC (0.295", 7.50mm Width)  OTHER NAMES  336-1764-5 518442BBDIS  OPERATING TEMPERATURE  AUPC ~ 125°C  NUMBER OF CHANNELS  MOUNTING TYPE  MOUNTING TYPE  MOISTURE SENSITIVITY LEVEL (MSL)  LEAD FREE STATUS / ROHS STATUS  LEAd free / ROHS Compliant  ISOLATED POWER  INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  DISTORES AS BORD AS B	TECHNOLOGY	Capacitive Coupling
RISE / FALL TIME (TYP)  PULSE WIDTH DISTORTION (MAX)  2.5ns  PROPAGATION DELAY TPLH / TPHL (MAX)  9.5ns, 9.5ns  PACKAGING  Tube  PACKAGE / CASE  16-SOIC (0.295", 7.50mm Width)  OTHER NAMES  336-1764-5 S18442BBDIS  OPERATING TEMPERATURE  40°C ~ 125°C  NUMBER OF CHANNELS  MOUNTING TYPE  MOUNTING TYPE  MOISTURE SENSITIVITY LEVEL (MSL)  LEAD FREE STATUS / ROHS STATUS  LEAD FREE STATU	SUPPLIER DEVICE PACKAGE	16-SOIC
PULSE WIDTH DISTORTION (MAX)  PROPAGATION DELAY TPLH / TPHL (MAX)  PACKAGING  PACKAGING  Tube  PACKAGE / CASE  16-SOIC (0.295", 7.50mm Width)  OTHER NAMES  OTHER NAMES  OPERATING TEMPERATURE  AU°C ~ 125°C  NUMBER OF CHANNELS  MOUNTING TYPE  Surface Mount  MOISTURE SENSITIVITY LEVEL (MSL)  LEAD FREE STATUS / ROHS STATUS  LEAD FREE STATUS / ROHS STATUS  INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  DATA RATE  2.5ns  1ube  1con  1c	SERIES	-
PROPAGATION DELAY TPLH / TPHL (MAX) PACKAGING Tube  PACKAGE / CASE 16-SOIC (0.295", 7.50mm Width)  OTHER NAMES OTHER NAMES OPERATING TEMPERATURE -40°C ~ 125°C  NUMBER OF CHANNELS MOUNTING TYPE Surface Mount MOISTURE SENSITIVITY LEVEL (MSL) LEAD FREE STATUS / ROHS STATUS LEAd Free / ROHS Compliant  ISOLATED POWER  INPUTS - SIDE 1/SIDE 2 DETAILED DESCRIPTION  DATA RATE  9.5ns, 9.5ns 10be 16-SOIC (0.295", 7.50mm Width) 16-SOIC (0.295", 7.50mm Width) 17-SOMm Width) 18-SOIL (0.295", 7.50mm Width)	RISE / FALL TIME (TYP)	3.8ns, 2.8ns
PACKAGING Tube  PACKAGE / CASE 16-SOIC (0.295", 7.50mm Width)  OTHER NAMES 336-1764-5 SIB442BBDIS  OPERATING TEMPERATURE 40°C ~ 125°C  NUMBER OF CHANNELS 44  MOUNTING TYPE Surface Mount  MOISTURE SENSITIVITY LEVEL (MSL) 2A (4 Weeks)  LEAD FREE STATUS / ROHS STATUS Lead free / ROHS Compliant  ISOLATED POWER NO  INPUTS - SIDE 1/SIDE 2 2/2  DETAILED DESCRIPTION General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)  DATA RATE 150 16-SOIC (0.295", 7.50mm Width)	PULSE WIDTH DISTORTION (MAX)	2.5ns
PACKAGE / CASE  16-SOIC (0.295", 7.50mm Width)  336-1764-5 S18442BBDIS  OPERATING TEMPERATURE  A0°C ~ 125°C  NUMBER OF CHANNELS  MOUNTING TYPE  Surface Mount  MOISTURE SENSITIVITY LEVEL (MSL)  LEAD FREE STATUS / ROHS STATUS  LEAd free / ROHS Compliant  ISOLATED POWER  NO  INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)  DATA RATE  150Mbps	PROPAGATION DELAY TPLH / TPHL (MAX)	9.5ns, 9.5ns
OTHER NAMES336-1764-5 SIR8442BBDISOPERATING TEMPERATURE-40°C ~ 125°CNUMBER OF CHANNELS4MOUNTING TYPESurface MountMOISTURE SENSITIVITY LEVEL (MSL)2A (4 Weeks)LEAD FREE STATUS / ROHS STATUSLead free / RoHS CompliantISOLATED POWERNoINPUTS - SIDE 1/SIDE 22/2DETAILED DESCRIPTIONGeneral Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)DATA RATE150Mbps	PACKAGING	Tube
OPERATING TEMPERATURE OPERATING TEMPERATURE  NUMBER OF CHANNELS MOUNTING TYPE Surface Mount MOISTURE SENSITIVITY LEVEL (MSL) LEAD FREE STATUS / ROHS STATUS LEAD FREE STATUS / ROHS STATUS LEAD FREE STATUS / ROHS STATUS  ISOLATED POWER NO INPUTS - SIDE 1/SIDE 2 DETAILED DESCRIPTION  DATA RATE  SI8442BBDIS  40°C ~ 125°C  Aug C  40°C ~ 125°C  Aug	PACKAGE / CASE	16-SOIC (0.295", 7.50mm Width)
NUMBER OF CHANNELS  MOUNTING TYPE  Surface Mount  MOISTURE SENSITIVITY LEVEL (MSL)  LEAD FREE STATUS / ROHS STATUS  Lead free / ROHS Compliant  ISOLATED POWER  NO  INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)  DATA RATE	OTHER NAMES	
MOUNTING TYPE  MOISTURE SENSITIVITY LEVEL (MSL)  Lead free / RoHS Compliant  Lead free / RoHS Compliant  ISOLATED POWER  NO  INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)  DATA RATE	OPERATING TEMPERATURE	-40°C ~ 125°C
MOISTURE SENSITIVITY LEVEL (MSL)  LEAD FREE STATUS / ROHS STATUS  Lead free / RoHS Compliant  ISOLATED POWER  No  INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)  DATA RATE  150Mbps	NUMBER OF CHANNELS	4
Lead free / RoHS Compliant  ISOLATED POWER  INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  DATA RATE  Lead free / RoHS Compliant  RoHS Compliant  Lead free / RoHS Compliant  RoHS Compliant  Lead free / RoHS Compliant  RoHS	MOUNTING TYPE	Surface Mount
INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  DATA RATE  No  Roeneral Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)  150Mbps	MOISTURE SENSITIVITY LEVEL (MSL)	2A (4 Weeks)
INPUTS - SIDE 1/SIDE 2  DETAILED DESCRIPTION  General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)  DATA RATE  150Mbps	LEAD FREE STATUS / ROHS STATUS	Lead free / RoHS Compliant
DETAILED DESCRIPTION  General Purpose Digital Isolator 2500Vrms 4 Channel 150Mbps 25kV/µs (Typ) CMTI 16-SOIC (0.295", 7.50mm Width)  DATA RATE  150Mbps	ISOLATED POWER	No
DATA RATE 150Mbps	INPUTS - SIDE 1/SIDE 2	2/2
	DETAILED DESCRIPTION	
COMMON MODE TRANSIENT IMMUNITY (MIN) 25kV/µs (Typ)	DATA RATE	150Mbps
	COMMON MODE TRANSIENT IMMUNITY (MIN)	25kV/μs (Typ)

# **Related Tags**

Unidirectional

		<del>-</del>
Energy Micro (Silicon Labs) SI8442BB-D-IS	SI8442BB-D-IS Distributor	SI8442BB-D-IS Supplier
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Silicon Laboratories SI8442BB-D-IS	Silicon Labs SI8442BB-D-IS	

# **Related Products**



CHANNEL TYPE

## **SI8442BB-C-IS1**

Manufacturers: Energy Micro (Silicon Labs) Description: DGTL ISO 2.5KV GEN PURP 16SOIC

In stock: Out stock

**RFQ** 



## **SI8445-B-IS**

Manufacturers: Energy Micro (Silicon Labs) Description: DGTL ISO 2.5KV GEN PURP 16SOIC

In stock: Out stock

**RFQ** 



# SI8442BA-D-IUR

Manufacturers: Energy Micro (Silicon Labs) Description: DGTL ISO 1KV 4CH GEN PURP 16QSOP In stock: Out stock

**RFQ** 



## **SI8445BA-C-IS1R**

Manufacturers: Energy Micro (Silicon Labs) Description: DGTL ISO 1KV 4CH GEN PURP 16SOIC In stock: Out stock

**RFQ** 



# SI8442BB-C-IS1R

Manufacturers: Energy Micro (Silicon Labs) Description: DGTL ISO 2.5KV GEN PURP 16SOIC

In stock: Out stock

**RFQ** 



### SI8442BB-C-IS Manufacturers: Energy Micro (Silicon Labs)

Description: IC ISOLATOR 4CH 5.5V 16-SOIC In stock: 598 pcs

**RFQ** 



### **SI8442BA-D-IU** Manufacturers: Energy Micro (Silicon Labs)

Description: DGTL ISO 1KV 4CH GEN PURP 16QSOP In stock: Out stock

**RFQ** 



### **SI8442BB-D-IS1** Manufacturers: Energy Micro (Silicon Labs)

Description: DGTL ISO 2.5KV GEN PURP 16SOIC In stock: Out stock

**RFQ** 



### SI8442BB-D-ISR Manufacturers: Energy Micro (Silicon Labs)

Description: DGTL ISO 2.5KV GEN PURP 16SOIC In stock: Out stock

**RFQ** 



#### **SI8442BA-D-IS1R** Manufacturers: Energy Micro (Silicon Labs) Description: DGTL ISO 1KV 4CH GEN PURP 16SOIC

In stock: Out stock

**RFQ** 





#### Manufacturers: Energy Micro (Silicon Labs) Description: DGTL ISO 1KV 4CH GEN PURP 16SOIC

**SI8445BA-C-IS1** 

In stock: Out stock **RFQ** 



# Description: DGTL ISO 2.5KV GEN PURP 16SOIC

**SI8442BB-D-IS1R** Manufacturers: Energy Micro (Silicon Labs)

In stock: Out stock **RFQ** 















