



Image may be representation.  
See specifications for product details.

### SI8441BA-C-IS1R

Part Number: **SI8441BA-C-IS1R**  
 Product Description: DCTL ISO 1KV 4CH GEN PURP 16SOIC  
 RoHs Status: Lead free / RoHS Compliant  
 Datasheets: [SI8441BA-C-IS1R.pdf](#)

Manufacturer/Brand: Energy Micro (Silicon Labs)  
 Ship From: Hong Kong  
 Shipment Way: DHL/Fedex/TNT/UPS/EMS

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#### Product details

<b>Part Number</b>	SI8441BA-C-IS1R	<b>Manufacturer</b>	Energy Micro (Silicon Labs)
<b>Description</b>	DCTL ISO 1KV 4CH GEN PURP 16SOIC	<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>Data sheet</b>	SI8441BA-C-IS1R.pdf		
<b>Voltage - Supply</b>	2.7 V ~ 5.5 V	<b>Voltage - Isolation</b>	1000Vrms
<b>Type</b>	General Purpose	<b>Technology</b>	Capacitive Coupling
<b>Supplier Device Package</b>	16-SOIC	<b>Series</b>	-
<b>Rise / Fall Time (Typ)</b>	3.8ns, 2.8ns	<b>Pulse Width Distortion (Max)</b>	2.5ns
<b>Propagation Delay tpLH / tpHL (Max)</b>	9.5ns, 9.5ns	<b>Packaging</b>	Tape & Reel (TR)
<b>Package / Case</b>	16-SOIC (0.154", 3.90mm Width)	<b>Operating Temperature</b>	-40°C ~ 125°C
<b>Number of Channels</b>	4	<b>Mounting Type</b>	Surface Mount
<b>Moisture Sensitivity Level (MSL)</b>	2 (1 Year)	<b>Lead Free Status / RoHS Status</b>	Lead free / RoHS Compliant
<b>Isolated Power</b>	No	<b>Inputs - Side 1/Side 2</b>	3/1
<b>Detailed Description</b>	General Purpose Digital Isolator 1000Vrms 4 Channel 150Mbps 25kV/μs (Typ) CMTI 16-SOIC (0.154", 3.90mm Width)	<b>Data Rate</b>	150Mbps
<b>Common Mode Transient Immunity (Min)</b>	25kV/μs (Typ)	<b>Channel Type</b>	Unidirectional

#### Related Products

<p><b>SI8441AB-D-ISR</b>                  Manufacturers: Energy Micro (Silicon Labs)                  Description: DCTL ISO 2.5KV GEN PURP 16SOIC                  Download: <a href="#">SI8441AB-D-ISR.pdf</a></p> <p><a href="#">RFQ</a></p>	<p><b>SI8441BB-C-IS</b>                  Manufacturers: Energy Micro (Silicon Labs)                  Description: IC ISOLATOR 4CH 5.5V 16-SOIC                  Download: <a href="#">SI8441BB-C-IS.pdf</a></p> <p><a href="#">RFQ</a></p>
<p><b>SI8441AB-D-IS</b>                  Manufacturers: Energy Micro (Silicon Labs)                  Description: DCTL ISO 2.5KV GEN PURP 16SOIC                  Download: <a href="#">SI8441AB-D-IS.pdf</a></p> <p><a href="#">RFQ</a></p>	<p><b>SI8441AB-C-IS1R</b>                  Manufacturers: Energy Micro (Silicon Labs)                  Description: DCTL ISO 1KV 4CH GEN PURP 16SOIC                  Download: <a href="#">SI8441AB-C-IS1R.pdf</a></p> <p><a href="#">RFQ</a></p>
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