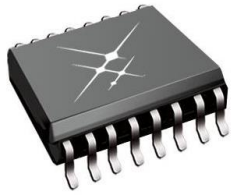


SI8030AA-B-IU Datasheet

www.digi-electronics.com



DiGi Electronics Part Number	SI8030AA-B-IU-DG
Manufacturer	Skyworks Solutions Inc.
Manufacturer Product Number	SI8030AA-B-IU
Description	DGTL ISO 1000VRMS 3CH GP 16QSOP
Detailed Description	General Purpose Digital Isolator 1000Vrms 3 Channel 10Mbps 35kV/μs CMTI 16-SSOP (0.154", 3.90mm Width)

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DiGi is a global authorized distributor of electronic components.

Purchase and inquiry

Manufacturer Product Number:

SI8030AA-B-IU

Series:

-

Technology:

Capacitive Coupling

Isolated Power:

No

Inputs - Side 1/Side 2:

3/0

Voltage - Isolation:

1000Vrms

Data Rate:

10Mbps

Pulse Width Distortion (Max):

30ns

Voltage - Supply:

3.15V ~ 5.5V

Mounting Type:

Surface Mount

Supplier Device Package:

16-QSOP

Manufacturer:

Skyworks Solutions Inc.

Product Status:

Active

Type:

General Purpose

Number of Channels:

3

Channel Type:

Unidirectional

Common Mode Transient Immunity (Min):

35kV/ μ s

Propagation Delay tpLH / tpHL (Max):

65ns, 65ns

Rise / Fall Time (Typ):

2.5ns, 2.5ns

Operating Temperature:

-40°C ~ 125°C

Package / Case:

16-SSOP (0.154", 3.90mm Width)

Base Product Number:

SI8030

Environmental & Export classification

RoHS Status:

ROHS3 Compliant

REACH Status:

REACH Unaffected

HTSUS:

8542.39.0001

Moisture Sensitivity Level (MSL):

2A (4 Weeks)

ECCN:

EAR99

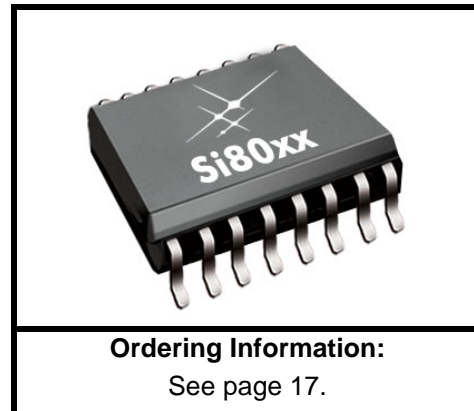


Si80xx-1kV

1 kV THREE TO SIX-CHANNEL DIGITAL ISOLATORS

Features

- High-speed operation
 - DC to 10 Mbps
- No start-up initialization required
- Wide Operating Supply Voltage
 - 3.15 – 5.5 V
- Up to 1000 V_{RMS} isolation
- High electromagnetic immunity
- Low power consumption (typical)
 - 2.3 mA per channel at 10 Mbps
- Tri-state outputs with ENABLE
- Schmitt trigger inputs
- Default low output
- Precise timing (typical)
 - 40 ns propagation delay
 - 20 ns pulse width distortion
 - 100 ns minimum pulse width
- Transient Immunity 50 kV/ μ s
- AEC-Q100 qualification
- Wide temperature range
 - -40 to 125 °C
- RoHS-compliant packages
 - QSOP-16



Ordering Information:
See page 17.

Applications

- Industrial automation systems
- Medical electronics
- Hybrid electric vehicles
- Isolated ADC, DAC
- Power inverters
- Communication systems

Description

Skyworks' family of low-power digital isolators are CMOS devices offering substantial data rate, propagation delay, power, size, reliability, and external BOM advantages over legacy isolation technologies. The operating parameters of these products remain stable across wide temperature ranges and throughout device service life for ease of design and highly uniform performance. All device versions have Schmitt trigger inputs for high noise immunity and only require VDD bypass capacitors. Data rates up to 10 Mbps are supported, and all devices achieve propagation delays of less than 65 ns. Enable inputs provide a single point control for enabling and disabling output drive. Ordering options include a choice of 1kV_{RMS} isolation ratings.

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1. Electrical Specifications

Table 1. Recommended Operating Conditions

Parameter	Symbol	Min	Typ	Max	Unit
Ambient Operating Temperature*	T_A	-40	25	125	°C
Supply Voltage	V_{DD1}	3.15	—	5.5	V
	V_{DD2}	3.15	—	5.5	V

*Note: The maximum ambient temperature is dependent on data frequency, output loading, number of operating channels, and supply voltage.

Table 2. Electrical Characteristics

($V_{DD1} = 3.15$ to 5.5 V, $V_{DD2} = 3.15$ to 5.5 V, $T_A = -40$ to 125 °C)

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
VDD Undervoltage Threshold	VDDUV+	V_{DD1}, V_{DD2} rising	2.65	2.80	3.05	V
VDD Undervoltage Threshold	VDDUV-	V_{DD1}, V_{DD2} falling	2.2	2.50	2.75	V
VDD Undervoltage Threshold Hysteresis	VDDHYS		—	270	—	mV
Positive-Going Input Threshold	VT+	All inputs rising	1.4	1.6	1.9	V
Negative-Going Input Threshold	VT-	All inputs falling	1.0	1.2	1.4	V
Input Hysteresis	V_{HYS}		—	0.40	—	V
High Level Input Voltage	V_{IH}		2.0	—	—	V
Low Level input voltage	V_{IL}		—	—	0.8	V
High Level Output Voltage	V_{OH}	$I_{OH} = -4$ mA	$V_{DD1}, V_{DD2} - 0.4$	4.8	—	V
Low Level Output Voltage	V_{OL}	$I_{OL} = 4$ mA	—	0.2	0.4	V
Input Leakage Current	I_L		—	—	±10	µA
Output Impedance ¹	Z_O		—	50	—	Ω
Enable Input High Current	I_{ENH}	$V_{ENx} = V_{IH}$	—	2.0	—	µA
Enable Input Low Current	I_{ENL}	$V_{ENx} = V_{IL}$	—	16	—	µA
Supply Current (DC)	V_{DD1}	$V_I = 0, 1$	—	4.4	7.5	mA
	V_{DD2}	$C_L = 15$ pF	—	7.5	10	mA

Notes:

1. The nominal output impedance of an isolator driver channel is approximately 50Ω , $\pm 40\%$, which is a combination of the value of the on-chip series termination resistor and channel resistance of the output driver FET. When driving loads where transmission line effects will be a factor, output pins should be appropriately terminated with controlled impedance PCB traces.
2. $t_{PSK(P-P)}$ is the magnitude of the difference in propagation delay times measured between different units operating at the same supply voltages, load, and ambient temperature.
3. Start-up time is the time period from the application of power to valid data at the output.

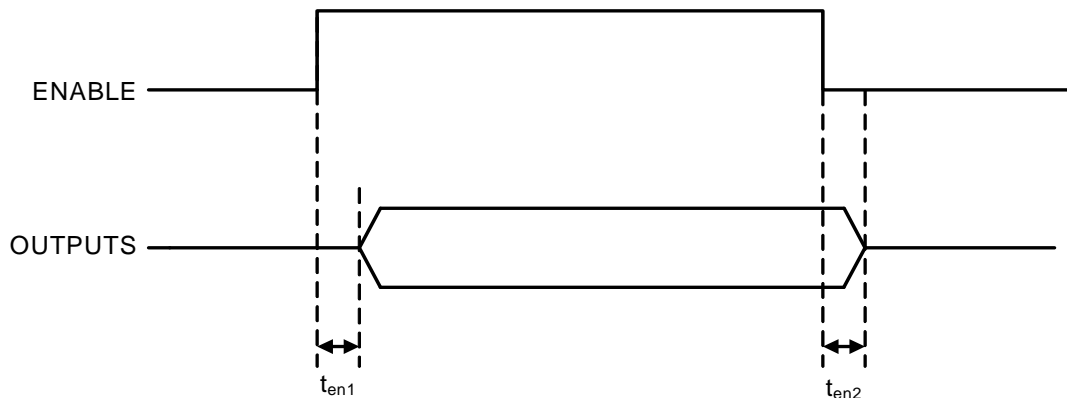
Si80xx-1kV

Table 2. Electrical Characteristics (Continued)
 $(V_{DD1} = 3.15 \text{ to } 5.5 \text{ V}, V_{DD2} = 3.15 \text{ to } 5.5 \text{ V}, T_A = -40 \text{ to } 125 \text{ }^\circ\text{C})$

Parameter	Symbol	Test Condition	Min	Typ	Max	Unit
Supply Current (10 Mbps)						
V_{DD1}		$V_I = 5 \text{ MHz}$	—	4.4	7.5	mA
V_{DD2}		$C_L = 15 \text{ pF}$	—	9.4	12	mA
Maximum Data Rate			0	—	10	Mbps
Minimum Pulse Width			—	—	100	ns
Propagation Delay	t_{PHL}, t_{PLH}	See Figure 2	20	40	65	ns
Pulse Width Distortion $ t_{PLH} - t_{PHL} $	PWD	See Figure 2	—	20	30	ns
Propagation Delay Skew ²	$t_{PSK(P-P)}$		—	20	30	ns
Channel-Channel Skew	t_{PSK}		—	20	30	ns
Output Rise Time	t_r	$C_L = 15 \text{ pF}$ See Figure 2	—	2.5	4.0	ns
Output Fall Time	t_f	$C_L = 15 \text{ pF}$ See Figure 2	—	2.5	4.0	ns
Common Mode Transient Immunity	CMTI	$V_I = V_{DD}$ or 0 V $V_{CM} = 1500 \text{ V}$ (see Figure 3)	35	50	—	kV/ μs
Enable to Data Valid	t_{en1}	See Figure 1	—	10	—	ns
Enable to Data Tri-State	t_{en2}	See Figure 1	—	10	—	ns
Start-up Time ³	t_{SU}		—	40	—	μs

Notes:

1. The nominal output impedance of an isolator driver channel is approximately 50Ω , $\pm 40\%$, which is a combination of the value of the on-chip series termination resistor and channel resistance of the output driver FET. When driving loads where transmission line effects will be a factor, output pins should be appropriately terminated with controlled impedance PCB traces.
2. $t_{PSK(P-P)}$ is the magnitude of the difference in propagation delay times measured between different units operating at the same supply voltages, load, and ambient temperature.
3. Start-up time is the time period from the application of power to valid data at the output.


Figure 1. ENABLE Timing Diagram

Si80xx-1kV

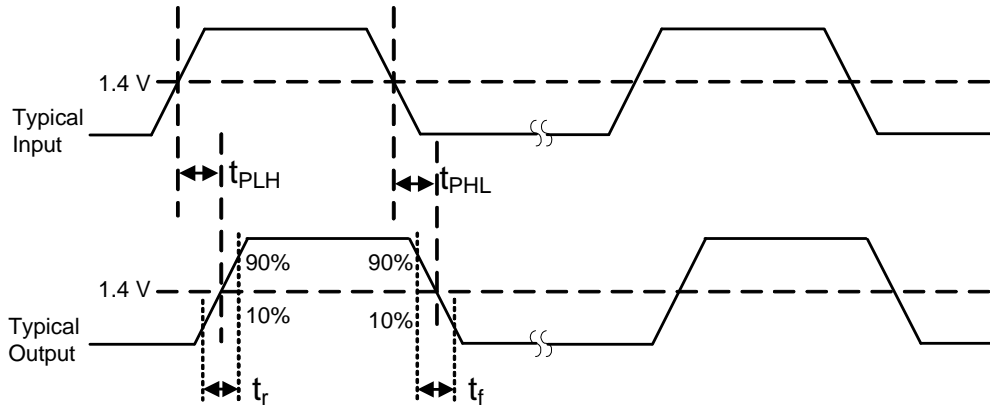


Figure 2. Propagation Delay Timing

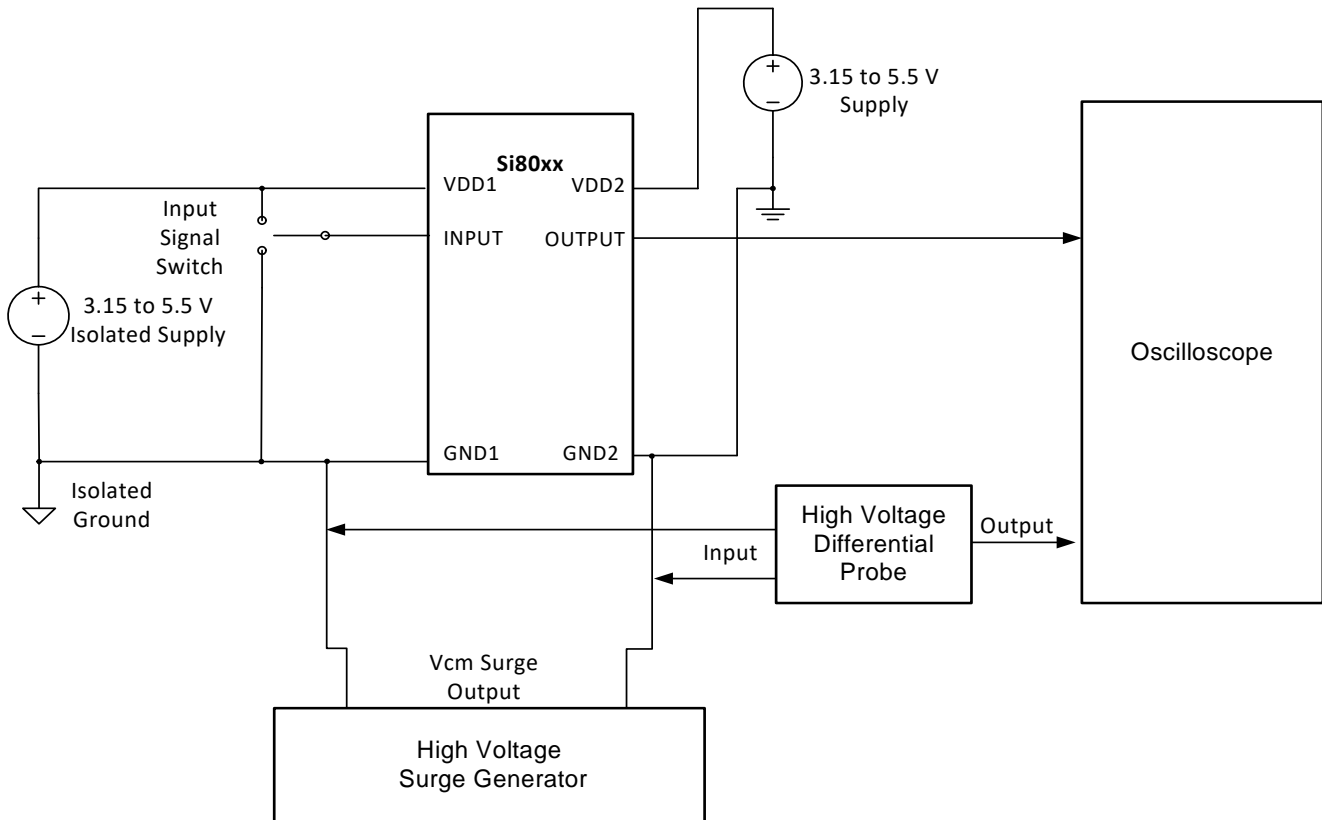


Figure 3. Common Mode Transient Immunity Test Circuit

Si80xx-1kV

Table 3. Thermal Characteristics

Parameter	Symbol	QSOP-16	Unit
IC Junction-to-Air Thermal Resistance	θ_{JA}	105	°C/W
Max Junction Temperature	T_J	130	°C

Table 4. Absolute Maximum Ratings¹

Parameter	Symbol	Min	Typ	Max	Unit
Storage Temperature ²	T_{STG}	-65	—	150	°C
Ambient Temperature Under Bias	T_A	-40	—	125	°C
Junction Temperature	T_J	—	—	150	°C
Supply Voltage	V_{DD1}, V_{DD2}	-0.5	—	7.0	V
Input Voltage	V_I	-0.5	—	$V_{DD} + 0.5$	V
Output Voltage	V_O	-0.5	—	$V_{DD} + 0.5$	V
Output Current Drive Channel	I_O	—	—	22	mA
Latchup Immunity ³		—	—	100	V/ns
Lead Solder Temperature (10 s)		—	—	260	°C
Maximum Isolation (Input to Output) (1 sec) QSOP-16		—	—	1500	V_{RMS}

Notes:

1. Permanent device damage may occur if the absolute maximum ratings are exceeded. Functional operation should be restricted to conditions as specified in the operational sections of this data sheet.
2. VDE certifies storage temperature from -40 to 150 °C.
3. Latchup immunity specification is for slew rate applied across GND1 and GND2.

2. Functional Description

2.1. Theory of Operation

The Si80xx comprises a transmitter and a receiver separated by a semiconductor-based isolation barrier. The Si80xx uses a high-frequency internal oscillator on the transmitter to modulate digital input signals across the capacitive isolation barrier. On the receiver side, these signals are demodulated back to the corresponding digital output signals that are galvanically isolated from the input. This simple and elegant architecture provides a robust data path and requires no special considerations or initialization at start-up. A simplified block diagram for an Si80xx data channel is shown in Figure 4.

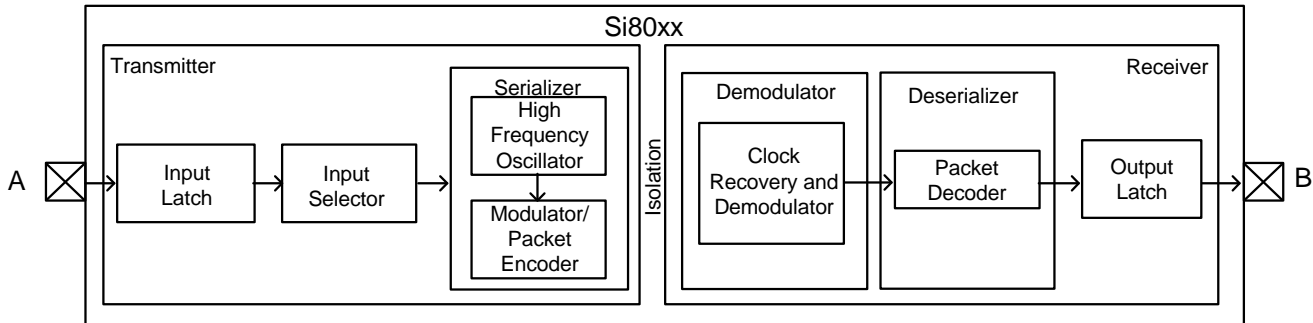


Figure 4. Simplified Channel Diagram

The transmitter consists of an input stage that latches in data from up to six asynchronous channels, followed by a serializer stage where the data is compressed into serial data packets that are then coupled across the capacitive isolation barrier. The receiver consists of a demodulator block that converts the modulated signal back into serial data packets that are then deserialized and latched to the output.

Si80xx-1kV

3. Device Operation

Device behavior during start-up, normal operation, and shutdown is shown in Figure 5, where UVLO+ and UVLO- are the positive-going and negative-going thresholds respectively. Refer to Table 5 to determine outputs when power supply (VDD) is not present. Additionally, refer to Table 6 for logic conditions when enable pins are used.

Table 5. Si80xx Logic Operation

V _I Input ^{1,2}	EN Input ^{1,2,3,4}	VDDI State ^{1,5,6}	VDDO State ^{1,5,6}	V _O Output ^{1,2}	Comments
H	H or NC	P	P	H	Enabled, normal operation.
L	H or NC	P	P	L	
X ⁷	L	P	P	Hi-Z ⁸	Disabled.
X ⁷	H or NC	UP	P	L	Upon transition of VDDI from unpowered to powered, V _O returns to the same state as V _I after Start-up Time, t _{SU}
X ⁷	L	UP	P	Hi-Z ⁸	Disabled.
X ⁷	X ⁷	P	UP	Undetermined	Upon transition of VDDO from unpowered to powered, V _O returns to the same state as V _I after Start-up Time, t _{SU} , if EN is in either the H or NC state. Upon transition of VDDO from unpowered to powered, V _O returns to Hi-Z after Start-up Time, t _{SU} , if EN is L.

Notes:

- VDDI and VDDO are the input and output power supplies. V_I and V_O are the respective input and output terminals. EN is the enable control input located on the same output side.
- X = not applicable; H = Logic High; L = Logic Low; Hi-Z = High Impedance.
- It is recommended that the enable inputs be connected to an external logic high or low level when the Si80xx is operating in noisy environments.
- No Connects are not internally connected and can be left floating, tied to VDD, or tied to GND.
- “Powered” state (P) is defined as 3.15 V < VDD < 5.5 V.
- “Unpowered” state (UP) is defined as VDD = 0 V.
- Note that an I/O can power the die for a given side through an internal diode if its source has adequate current.
- When using the enable pin (EN) function, the output pin state is driven into a high-impedance state when the EN pin is disabled (EN = 0).

Table 6. Enable Input Truth¹

P/N	EN ^{2,2}	Operation
Si8030 Si8040 Si8050	H	Outputs B1, B2, B3, B4, B5, B6 are enabled and follow input state.
	L	Outputs B1, B2, B3, B4, B5, B6 are disabled and Logic Low or in high impedance state. ³
Si8035 Si8045 Si8055 Si8065	—	Outputs B1, B2, B3, B4, B5, B6 are enabled and follow input state.

Notes:

1. Enable, EN, can be used for multiplexing, for clock sync, or other output control. EN is internally pulled-up to local VDD by a 16 μ A current source allowing it to be connected to an external logic level (high or low) or left floating. To minimize noise coupling, do not connect circuit traces to EN if it is left floating. If EN is unused, it is recommended that it be connected to an external logic level, especially if the Si80xx is operating in a noisy environment.
2. X = not applicable; H = Logic High; L = Logic Low.
3. When using the enable pin (EN) function, the output pin state is driven into a high-impedance state when the EN pin is disabled (EN = 0).

Si80xx-1kV

3.1. Device Startup

Outputs are held low during powerup until VDD is above the UVLO threshold for time period tSTART. Following this, the outputs follow the states of inputs.

3.2. Undervoltage Lockout

Undervoltage Lockout (UVLO) is provided to prevent erroneous operation during device startup and shutdown or when VDD is below its specified operating circuits range. Both Side A and Side B each have their own undervoltage lockout monitors. Each side can enter or exit UVLO independently. For example, Side A unconditionally enters UVLO when V_{DD1} falls below $V_{DD1(UVLO-)}$ and exits UVLO when V_{DD1} rises above $V_{DD1(UVLO+)}$. Side B operates the same as Side A with respect to its V_{DD2} supply. See Figure 5 for more details.

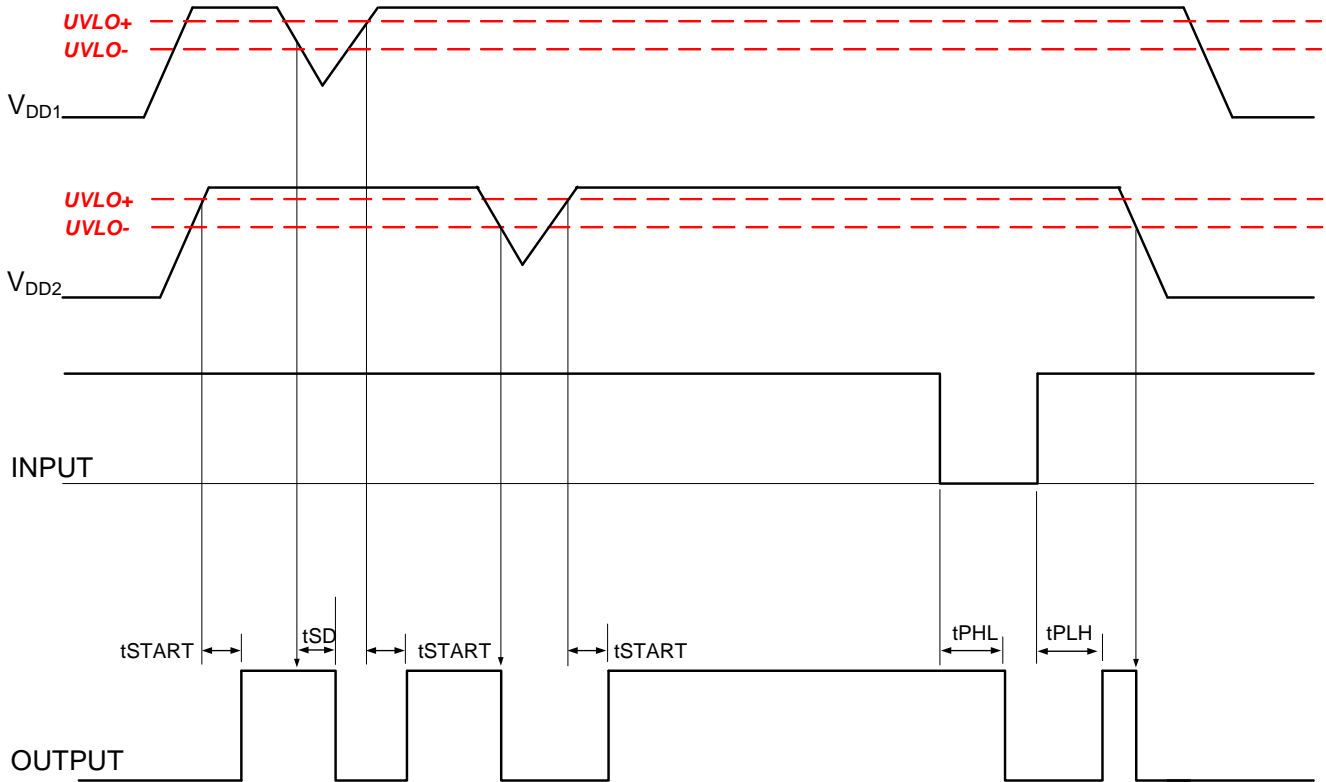


Figure 5. Device Behavior during Normal Operation

3.3. Layout Recommendations

To ensure safety in the end user application, high voltage circuits (i.e., circuits with $>30 V_{AC}$) must be physically separated from the safety extra-low voltage circuits (SELV is a circuit with $<30 V_{AC}$) by a certain distance (creepage/clearance). If a component, such as a digital isolator, straddles this isolation barrier, it must meet those creepage/clearance requirements and also provide a sufficiently large high-voltage breakdown protection rating (commonly referred to as working voltage protection). Refer to the end-system specification (61010-1, 60950-1, 60601-1, etc.) requirements before starting any design that uses a digital isolator.

3.3.1. Supply Bypass

The Si80xx family requires a 0.1 μF bypass capacitor between V_{DD1} and GND1 and V_{DD2} and GND2. The capacitor should be placed as close as possible to the package. To enhance the robustness of a design, the user may also include resistors (50–300 Ω) in series with the inputs and outputs if the system is excessively noisy.

3.3.2. Output Pin Termination

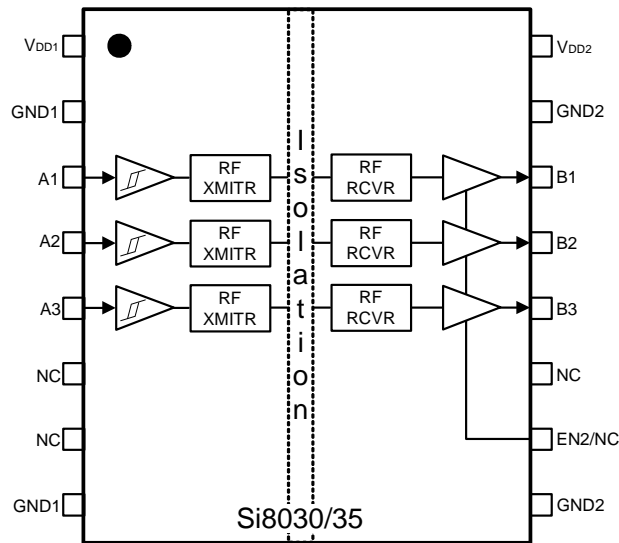
The nominal output impedance of an isolator driver channel is approximately 50 Ω , $\pm 40\%$, which is a combination of the value of the on-chip series termination resistor and channel resistance of the output driver FET. When driving loads where transmission line effects will be a factor, output pins should be appropriately terminated with controlled impedance PCB traces.

3.4. Fail-Safe Operating Mode

The default output state of Si80xx devices is logic low when the output supply is powered.

Si80xx-1kV

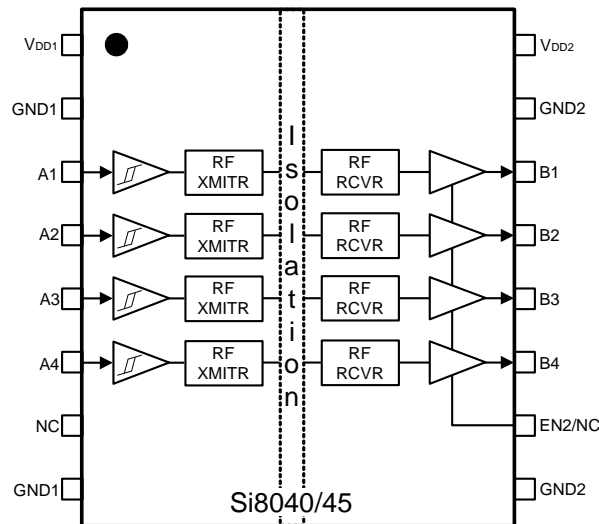
4. Pin Descriptions (Si8030/35)



Name	Pin#	Type	Description
V _{DD1}	1	Supply	Side 1 power supply.
GND1	2	Ground	Side 1 ground.
A1	3	Digital Input	Side 1 digital input.
A2	4	Digital Input	Side 1 digital input.
A3	5	Digital Input	Side 1 digital input.
NC*	6	NA	No Connect.
NC*	7	NA	No Connect.
GND1	8	Ground	Side 1 ground.
GND2	9	Ground	Side 2 ground.
EN2/NC*	10	Digital Input	Side 2 active high enable on Si8030. NC on Si8035.
NC*	11	NA	No Connect.
B3	12	Digital Output	Side 2 digital output.
B2	13	Digital Output	Side 2 digital output.
B1	14	Digital Output	Side 2 digital output.
GND2	15	Ground	Side 2 ground.
V _{DD2}	16	Supply	Side 2 power supply.

***Note:** No Connect. These pins are not internally connected. They can be left floating, tied to V_{DD} or tied to GND.

5. Pin Descriptions (Si8040/45)

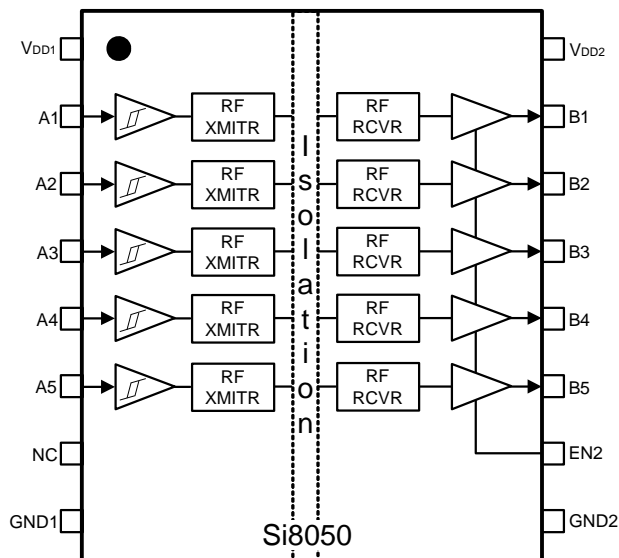


Name	Pin#	Type	Description
V _{DD1}	1	Supply	Side 1 power supply.
GND1	2	Ground	Side 1 ground.
A1	3	Digital Input	Side 1 digital input.
A2	4	Digital Input	Side 1 digital input.
A3	5	Digital Input	Side 1 digital input.
A4	6	Digital Input	Side 1 digital input.
NC*	7	NA	No Connect.
GND1	8	Ground	Side 1 ground.
GND2	9	Ground	Side 2 ground.
EN2/NC*	10	Digital Input	Side 2 active high enable on Si8040. NC on Si8045.
B4	11	Digital Output	Side 2 digital output.
B3	12	Digital Output	Side 2 digital output.
B2	13	Digital Output	Side 2 digital output.
B1	14	Digital Output	Side 2 digital output.
GND2	15	Ground	Side 2 ground.
V _{DD2}	16	Supply	Side 2 power supply.

***Note:** No Connect. These pins are not internally connected. They can be left floating, tied to V_{DD} or tied to GND.

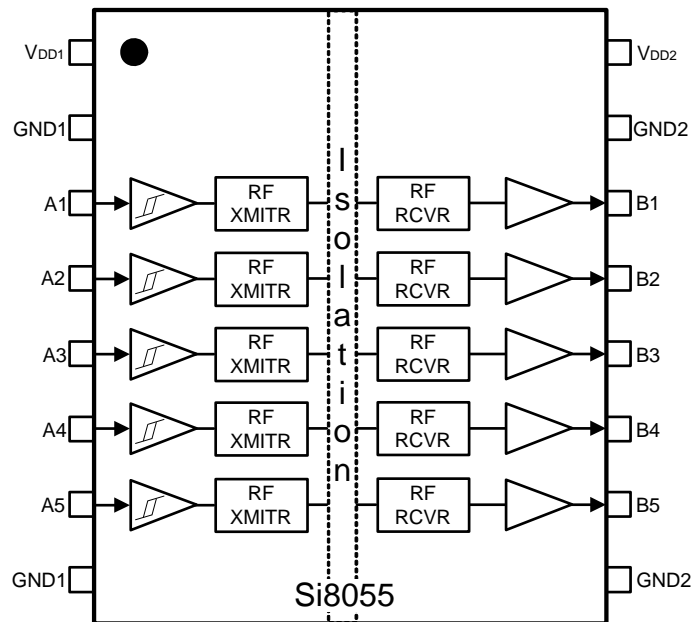
Si80xx-1kV

6. Pin Descriptions (Si8050)



Name	Pin#	Type	Description
V _{DD1}	1	Supply	Side 1 power supply.
A1	2	Digital Input	Side 1 digital input.
A2	3	Digital Input	Side 1 digital input.
A3	4	Digital Input	Side 1 digital input.
A4	5	Digital Input	Side 1 digital input.
A5	6	Digital Input	Side 1 digital input.
NC*	7	NA	No connect.
GND1	8	Ground	Side 1 ground.
GND2	9	Ground	Side 2 ground.
EN2	10	Digital Input	Side 2 active high enable on Si8050.
B5	11	Digital Output	Side 2 digital output.
B4	12	Digital Output	Side 2 digital output.
B3	13	Digital Output	Side 2 digital output.
B2	14	Digital Output	Side 2 digital output.
B1	15	Digital Output	Side 2 digital output.
V _{DD2}	16	Supply	Side 2 power supply.

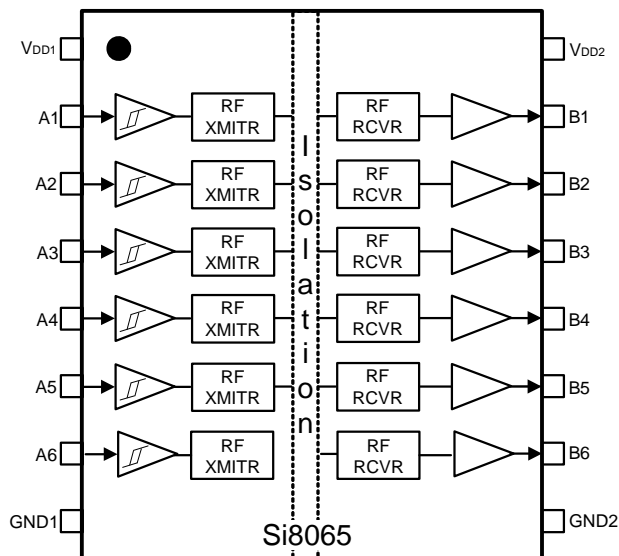
***Note:** No Connect. These pins are not internally connected. They can be left floating, tied to V_{DD} or tied to GND.

7. Pin Descriptions (Si8055)

Name	Pin#	Type	Description
V _{DD1}	1	Supply	Side 1 power supply.
GND1	2	Ground	Side 1 ground.
A1	3	Digital Input	Side 1 digital input.
A2	4	Digital Input	Side 1 digital input.
A3	5	Digital Input	Side 1 digital input.
A4	6	Digital Input	Side 1 digital input.
A5	7	Digital Input	Side 1 digital input.
GND1	8	Ground	Side 1 ground.
GND2	9	Ground	Side 2 ground.
B5	10	Digital Output	Side 2 digital output.
B4	11	Digital Output	Side 2 digital output.
B3	12	Digital Output	Side 2 digital output.
B2	13	Digital Output	Side 2 digital output.
B1	14	Digital Output	Side 2 digital output.
GND2	15	Ground	Side 2 ground.
V _{DD2}	16	Supply	Side 2 power supply.

Si80xx-1kV

8. Pin Descriptions (Si8065)



Name	Pin#	Type	Description
V _{DD1}	1	Supply	Side 1 power supply.
A1	2	Digital Input	Side 1 digital input.
A2	3	Digital Input	Side 1 digital input.
A3	4	Digital Input	Side 1 digital input.
A4	5	Digital Input	Side 1 digital input.
A5	6	Digital Input	Side 1 digital input.
A6	7	Digital Input	Side 1 digital input.
GND1	8	Ground	Side 1 ground.
GND2	9	Ground	Side 2 ground.
B6	10	Digital Output	Side 2 digital output.
B5	11	Digital Output	Side 2 digital output.
B4	12	Digital Output	Side 2 digital output.
B3	13	Digital Output	Side 2 digital output.
B2	14	Digital Output	Side 2 digital output.
B1	15	Digital Output	Side 2 digital output.
V _{DD2}	16	Supply	Side 2 power supply.

9. Ordering Guide

Table 7. Ordering Guide for Valid OPNs^{1,2,3}

Ordering Part Number (OPN)	Number of Inputs/Outputs	Default Output State	Output Enable Yes/No	Isolation Rating (kVrms)	Package
Si803x					
Si8030AA-B-IU	3	Low	Yes	1	QSOP-16
Si8035AA-B-IU	3	Low	No	1	QSOP-16
Si804x					
Si8040AA-B-IU	4	Low	Yes	1	QSOP-16
Si8045AA-B-IU	4	Low	No	1	QSOP-16
Si805x					
Si8050AA-B-IU	5	Low	Yes	1	QSOP-16
Si8055AA-B-IU	5	Low	No	1	QSOP-16
Si806x					
Si8065AA-B-IU	6	Low	No	1	QSOP-16
Notes:					
<ol style="list-style-type: none"> 1. All packages are RoHS-compliant with peak reflow temperatures of 260 °C according to the JEDEC industry standard classifications and peak solder temperatures. 2. "Si" and "SI" are used interchangeably. 3. Add an "R" at the end of the device to denote tape and reel option. 					

Si80xx-1kV

10. Package Outline: 16-Pin QSOP

Figure 6 illustrates the package details for the Si80xx in a 16-pin QSOP package. Table 8 lists the values for the dimensions shown in the illustration.

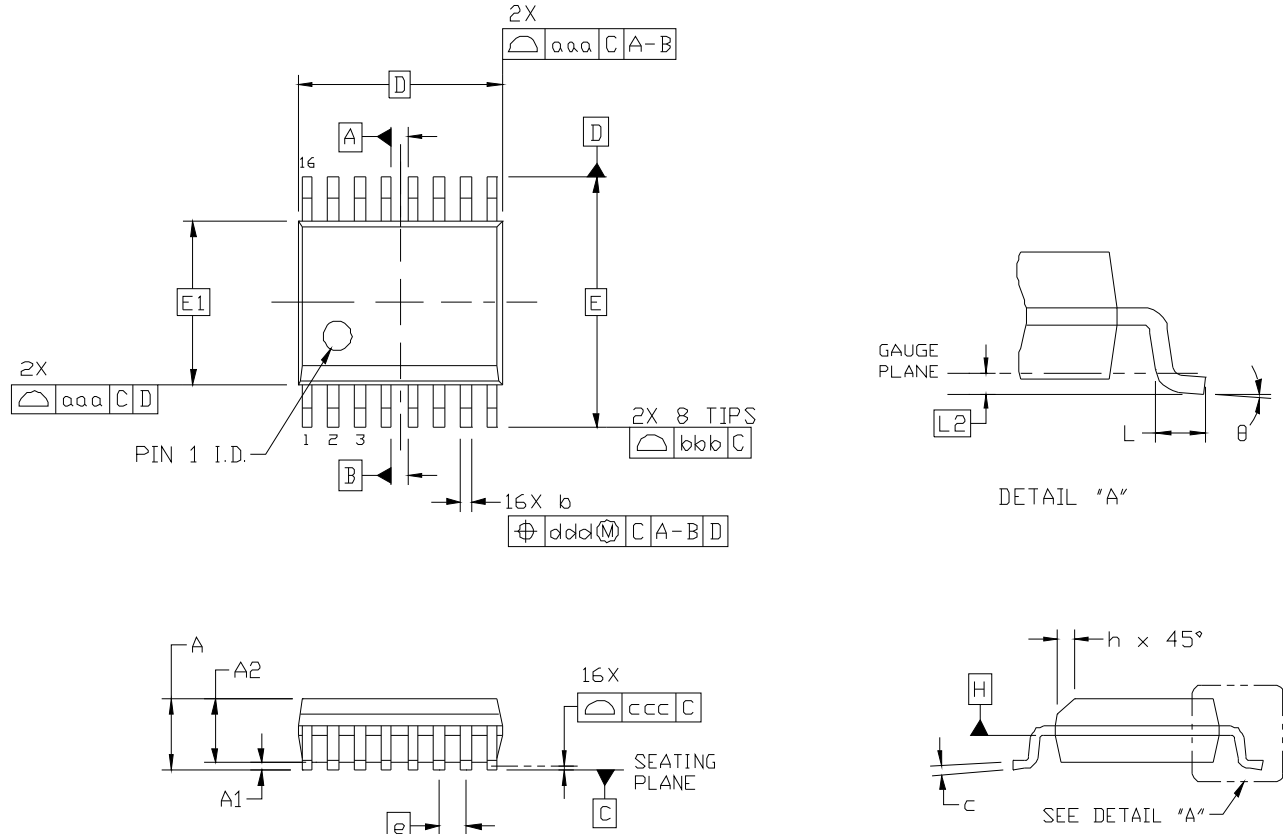


Figure 6. 16-pin QSOP Package

Table 8. Package Diagram Dimensions

Dimension	Min	Max
A	—	1.75
A1	0.10	0.25
A2	1.25	—
b	0.20	0.30
c	0.17	0.25
D	4.89 BSC	
E	6.00 BSC	
E1	3.90 BSC	
e	0.635 BSC	
L	0.40	1.27
L2	0.25 BSC	
h	0.25	0.50
θ	0°	8°
aaa	0.10	
bbb	0.20	
ccc	0.10	
ddd	0.25	
Notes:		
<ol style="list-style-type: none"> 1. All dimensions shown are in millimeters (mm) unless otherwise noted. 2. Dimensioning and Tolerancing per ANSI Y14.5M-1994. 3. This drawing conforms to the JEDEC Solid State Outline MO-137, Variation AB. 4. Recommended card reflow profile is per the JEDEC/IPC J-STD-020 specification for Small Body Components. 		

Si80xx-1kV

11. Land Pattern: 16-Pin QSOP

Figure 7 illustrates the recommended land pattern details for the Si80xx in a 16-pin QSOP package. Table 9 lists the values for the dimensions shown in the illustration.

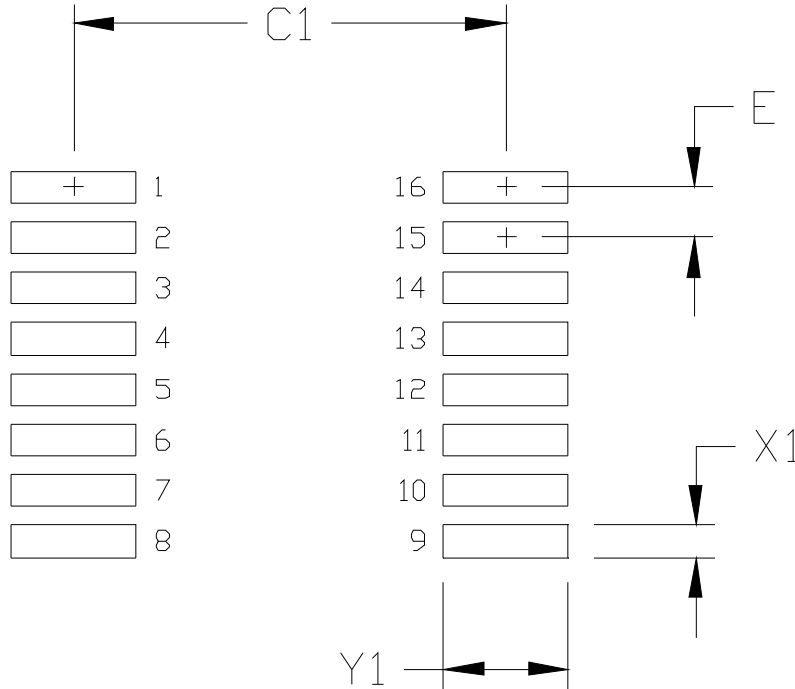


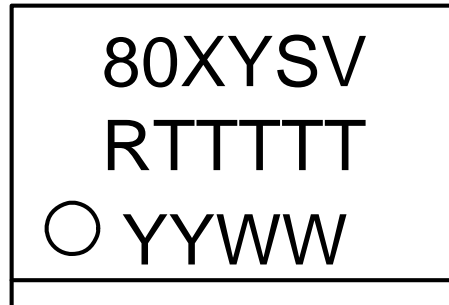
Figure 7. 16-Pin QSOP PCB Land Pattern

Table 9. 16-Pin QSOP Land Pattern Dimensions

Dimension	Feature	(mm)
C1	Pad Column Spacing	5.40
E	Pad Row Pitch	0.635
X1	Pad Width	0.40
Y1	Pad Length	1.55
Notes:		
<ol style="list-style-type: none"> 1. This Land Pattern Design is based on IPC-7351 pattern SOP63P602X173-16N for Density Level B (Median Land Protrusion). 2. All feature sizes shown are at Maximum Material Condition (MMC) and a card fabrication tolerance of 0.05 mm is assumed. 		

12. Top Markings

12.1. Top Marking (16-Pin QSOP)



12.2. Top Marking Explanation (16-Pin QSOP)

Line 1 Marking:	Base Part Number Ordering Options (See Ordering Guide for more information).	80 = Isolator product series XY = Channel Configuration X = # of data channels (6, 5, 4, 3) Y = # of reverse channels (0)* S = operating mode: A = default output = low V = Insulation rating A = 1 kV
Line 2 Marking:	RTTTTT = Mfg Code	Manufacturing code from assembly house "R" indicates revision
Line 3 Marking:	YY = Year WW = Work Week	Assigned by the Assembly House. Corresponds to the year and work week of the mold date.
*Note: Si8035/45/55/65 have 0 reverse channels.		

Si80xx-1kV

REVISION HISTORY

Revision 1.1

July, 2018

- Removed references to default output high option.
- Updated "Features" on front page.
- Updated "3. Device Operation" on page 8.
- Updated "3.4. Fail-Safe Operating Mode" on page 11.
- Updated "9. Ordering Guide" on page 17.
- Updated "12. Top Markings" on page 21.

Revision 1.0

January, 2014

Revision 0.9

October, 2013

- Initial revision.



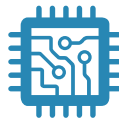
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