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Two Channel, 5kV_{RMS} I²C Isolator

General Description

The MAX14937 is a two-channel, $5kV_{RMS}$ I²C digital isolator utilizing Maxim's proprietary process technology. For applications requiring $2.75kV_{RMS}$ of isolation, see the MAX14933 data sheet. The device transfers digital signals between circuits with different power domains at ambient temperatures up to +125°C.

The device offers two bidirectional, open-drain channels for applications, such as I^2C , that require data to be transmitted in both directions on the same line.

The device features independent 2.25V to 5.5V supplies on each side of the isolator. The MAX14937 operates from DC to 1.7MHz and can be used in isolated I²C busses with clock stretching.

The MAX14937 is available in a 16-pin, wide-body (10.3mm x 7.5mm) SOIC package, and is rated for operation at ambient temperatures of -40° C to $+125^{\circ}$ C.

Applications

- I²C, SMBus, PMBus™ Interfaces
- Power Supplies
- Battery Management
- Instrumentation

Benefits and Features

- Robust Galvanic Isolation of Digital Signals
 - Withstands 5kV_{RMS} for 60s (V_{ISO})
 - Continuously Withstands 848V_{RMS} (V_{IOWM})
 - 1200V_{PEAK} Repetitive Peak Voltage (V_{IORM})
 - Withstands ±10kV Surge per IEC 61000-4-5
- Interfaces Directly with Most Micros and FPGAs
 Accepts 2.25V to 5.5V Supplies
 - · Bidirectional Data Transfer from DC to 1.7MHz
- Low Power Consumption
 5 2mA por Chapped Typical at 1 7M
 - 5.3mA per Channel Typical at 1.7MHz

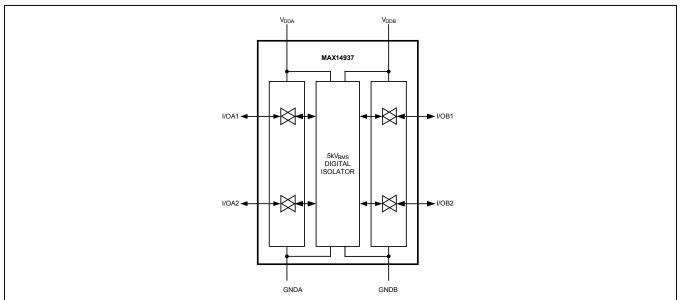
Safety Regulatory Approvals

(See Safety Regulatory Approvals)

- UL According to UL1577
- cUL According to CSA Bulletin 5A
- VDE 0884-10

Ordering Information appears at end of data sheet.

Functional Diagram



PMBus is a trademark of SMIF, Inc.



Absolute Maximum Ratings

V _{DDA} to GNDA	0.3V to +6V
V _{DDB} to GNDB	0.3V to +6V
I/OA_ to GNDA	0.3V to +6V
I/OB_ to GNDB	0.3V to +6V
Short-Circuit Duration	
(I/OA_ to GNDA, I/OB_ to GNDB)	Continuous

Continuous Power Dissipation ($T_A = +70^{\circ}C$)
Wide SO (derate 14.1mW/°C above +70°C)1126.8mW
Operating Temperature Range40°C to +125°C
Maximum Junction Temperature+150°C
Storage Temperature Range65°C to +150°C
Lead Temperature (soldering, 10s)+300°C
Soldering Temperature (reflow)+260°C

Stresses beyond those listed under "Absolute Maximum Ratings" may cause permanent damage to the device. These are stress ratings only, and functional operation of the device at these or any other conditions beyond those indicated in the operational sections of the specifications is not implied. Exposure to absolute maximum rating conditions for extended periods may affect device reliability.

Package Thermal Characteristics (Note 1)

Wide SOIC

Note 1: Package thermal resistances were obtained using the method described in JEDEC specification JESD51-7, using a four-layer board. For detailed information on package thermal considerations, refer to www.maximintegrated.com/thermal-tutorial.

DC Electrical Characteristics

 $V_{DDA} - V_{GNDA} = +2.25V$ to +5.5V, $V_{DDB} - V_{GNDB} = +2.25V$ to +5.5V, $T_A = -40^{\circ}C$ to +125°C, unless otherwise noted. Typical values are at $V_{DDA} - V_{GNDA} = +3.3V$, $V_{DDB} - V_{GNDB} = +3.3V$, $V_{GNDA} = V_{GNDB}$, $T_A = +25^{\circ}C$, unless otherwise noted. (Note 2 and Note 3)

PARAMETER	SYMBOL	CONDITION	MIN	ТҮР	MAX	UNITS		
POWER SUPPLY	·							
	VDDA	Relative to GNDA		2.25		5.5	V	
Operating Supply Voltage	V _{DDB}	Relative to GNDB		2.25		5.5	V	
Undervoltage-Lockout Threshold	VUVLO_	V _{DD} rising		1.7	2.0	2.2	V	
Undervoltage-Lockout Threshold Hysteresis	VUVLO_ HYST				85		mV	
		Side A, all channels DC or 1.7MHz	V _{DDA} = 5V		6	9	- mA	
	IDDA		V _{DDA} = 3.3V		6	9		
Supply Current			V _{DDA} = 2.5V		5.9	9		
Supply Current		Side B, all channels DC or 1.7MHz $V_{DDB} = 5V$ $V_{DDB} = 3.3V$ $V_{DDB} = 2.5V$	V _{DDB} = 5V		4.8	8		
	IDDB		V _{DDB} = 3.3V		4.8	8		
			V _{DDB} = 2.5V		4.7	8		
Statia Output Loading	II/OA_	Side A		0.5		3	m 4	
Static Output Loading	II/OB_	Side B		0.5		30	– mA	

DC Electrical Characteristics (continued)

 $V_{DDA} - V_{GNDA} = +2.25V \text{ to } +5.5V, V_{DDB} - V_{GNDB} = +2.25V \text{ to } +5.5V, T_A = -40^{\circ}\text{C} \text{ to } +125^{\circ}\text{C}, \text{ unless otherwise noted. Typical values are at } V_{DDA} - V_{GNDA} = +3.3V, V_{DDB} - V_{GNDB} = +3.3V, V_{GNDA} = V_{GNDB}, T_A = +25^{\circ}\text{C}, \text{ unless otherwise noted. (Note 2 and Note 3)}$

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
LOGIC INPUTS AND OUTPUTS	•					
		V _{I/OA} _relative to GNDA	0.7		-	
Input High Voltage	VIH	V _{I/OB} _relative to GNDB	0.7 x V _{DDB}			
Input Low Voltage		V _{I/OA} _relative to GNDA			0.5	
	VIL	V _{I/OB} _ relative to GNDB			0.3 x V _{DDB}	V
Input/Output Logic-Low Level Difference	DV _{I/OL}	I _{/OA_} (Note 4), V _{OL} - V _{IL}	50			mV
		$V_{I/OA}$ relative to GNDA, $I_{I/OA}$ = 3mA sink	600		900	
Output Voltage Low	VOL	$V_{I/OA}$ relative to GNDA, $I_{I/OA}$ = 0.5mA sink	600		850	mV
		$V_{I/OB}$ relative to GNDB, $I_{I/OB}$ = 30mA sink			400	
Leakage Current	١L	I/OA_ = V _{DDA} , I/OB_ = V _{DDB}	-1		+1	μA
Input Capacitance	C _{IN}	I/OA_, I/OB_, f = 1MHz 5			pF	

Two Channel, 5kV_{RMS} I²C Isolator

Dynamic Characteristics

 $V_{DDA} - V_{GNDA} = +2.25V \text{ to } +5.5V, V_{DDB} - V_{GNDB} = +2.25V \text{ to } +5.5V, T_A = -40^{\circ}\text{C} \text{ to } +125^{\circ}\text{C}, \text{ unless otherwise noted. Typical values are at } V_{DDA} - V_{GNDA} = +3.3V, V_{DDB} - V_{GNDB} = +3.3V, V_{GNDA} = V_{GNDB}, T_A = +25^{\circ}\text{C}, \text{ unless otherwise noted. (Note 5)}$

PARAMETER	SYMBOL		CONDITIONS	MIN	TYP	MAX	UNITS
Common-Mode Transient Immunity	CMTI	$IN_ = GND_ or V_D$	_{DD_} (Note 6)		25		kV/μs
Maximum Frequency	f _{MAX}					1.7	MHz
			$4.5V \le V_{DDA}, V_{DDB} \le 5.5V,$ $C_{LA} = 40pF, R_A = 1.6k\Omega,$ $C_{LB} = 400pF, R_B = 180\Omega$			80	
	t _{FA}	I/OA_ = 0.9V _{DDA} to 0.9V	$3.0V \le V_{DDA}, V_{DDB} \le 3.6V,$ $C_{LA} = 40pF, R_A = 1k\Omega,$ $C_{LB} = 400pF, R_B = 120\Omega$			65	
Fall Time (Figure 1)			$\begin{array}{l} 2.25 V \leq V_{DDA}, V_{DDB} \leq 2.75 V, \\ C_{LA} = 40 \text{pF}, \text{ R}_{\text{A}} = 810 \Omega, \\ C_{\text{LB}} = 400 \text{pF}, \text{ R}_{\text{B}} = 91 \Omega \end{array}$			55	nc
Fall Time (Figure 1)			$4.5V \le V_{DDA}, V_{DDB} \le 5.5V,$ $C_{LA} = 40pF, R_A = 1.6k\Omega,$ $C_{LB} = 400pF, R_B = 180\Omega$			35	ns
	t _{FB} I/OB_ = 0.9V _{DDB} to 0.1V _{DDB}	$\begin{array}{l} 3.0 V \leq V_{DDA}, V_{DDB} \leq 3.6 V, \\ C_{LA} = 40 pF, R_{A} = 1 k \Omega, \\ C_{LB} = 400 pF, R_{B} = 120 \Omega \end{array}$			45		
			$\begin{array}{l} 2.25 V \leq V_{DDA}, V_{DDB} \leq 2.75 V, \\ C_{LA} = 40 \text{pF}, \text{ R}_{\text{A}} = 810 \text{k}\Omega, \\ C_{\text{LB}} = 400 \text{pF}, \text{ R}_{\text{B}} = 91 \Omega \end{array}$			75	
			$\begin{array}{l} 4.5 V \leq V_{DDA}, V_{DDB} \leq 5.5 V, \\ C_{LA} = 0 p F, R_A = 1.6 k \Omega, \\ C_{LB} = 0 p F, R_B = 180 \Omega \end{array}$			20	
	^t PLHAB	$I/OA_ = 0.5V_{DDA}$ to $I/OB_ = 0.7V_{DDB}$	$\begin{array}{l} 3.0 V \leq V_{DDA}, V_{DDB} \leq 3.6 V, \\ C_{LA} = 0 p F, R_A = 1 k \Omega, \\ C_{LB} = 0 p F, R_B = 120 \Omega \end{array}$			25	
Propagation Delay (Figure 1)			$\begin{array}{l} 2.25 V \leq V_{DDA}, V_{DDB} \leq 2.75 V, \\ C_{LA} = 0 p F, R_A = 810 \Omega, \\ C_{LB} = 0 p F, R_B = 91 \Omega \end{array}$			35	
			$\begin{array}{l} 4.5 V \leq V_{DDA}, V_{DDB} \leq 5.5 V, \\ C_{LA} = 0 p F, R_A = 1.6 k \Omega, \\ C_{LB} = 0 p F, R_B = 180 \Omega \end{array}$			80	ns
	tPHLAB I/OA_ = 0.5V _{DDA} to I/OB_ = 0.4V	$\begin{array}{l} 3.0V \leq V_{DDA}, V_{DDB} \leq 3.6V, \\ C_{LA} = 0pF, R_A = 1k\Omega, \\ C_{LB} = 0pF, R_B = 120\Omega \end{array}$			95		
		$\begin{array}{l} 2.25 V \leq V_{DDA}, V_{DDB} \leq 2.75 V, \\ C_{LA} = 0 p F, R_A = 810 \Omega, \\ C_{LB} = 0 p F, R_B = 91 \Omega \end{array}$			110		

Dynamic Characteristics (continued)

 $V_{DDA} - V_{GNDA} = +2.25V \text{ to } +5.5V, V_{DDB} - V_{GNDB} = +2.25V \text{ to } +5.5V, T_A = -40^{\circ}\text{C to } +125^{\circ}\text{C}, \text{ unless otherwise noted. Typical values are at } V_{DDA} - V_{GNDA} = +3.3V, V_{DDB} - V_{GNDB} = +3.3V, V_{GNDA} = V_{GNDB}, T_A = +25^{\circ}\text{C}, \text{ unless otherwise noted. (Note 5)}$

PARAMETER	SYMBOL		CONDITIONS	MIN	TYP	MAX	UNITS	
Propagation Delay (Figure 1)			$\begin{array}{l} 4.5V \leq V_{DDA}, V_{DDB} \leq 5.5V, \\ C_{LA} = 0pF, R_A = 1.6k\Omega, \\ C_{LB} = 0pF, R_B = 180\Omega \end{array}$			25		
	^t PLHBA	I/OB_ = 0.5V _{DDB} to I/OA_ = 0.7V _{DDA}	$\begin{array}{l} 3.0V \leq V_{DDA}, V_{DDB} \leq 3.6V, \\ C_{LA} = 0pF, R_{A} = 1k\Omega, \\ C_{LB} = 0pF, R_{B} = 120\Omega \end{array}$			25		
			$\begin{array}{l} 2.25 V \leq V_{DDA}, V_{DDB} \leq 2.75 V, \\ C_{LA} = 0pF, R_{A} = 810\Omega, \\ C_{LB} = 0pF, R_{B} = 91\Omega \end{array}$			35		
	t _{PHLBA} ^t PHLBA to I/OA_ = 0.9V	$\begin{array}{l} 4.5V \leq V_{DDA}, V_{DDB} \leq 5.5V, \\ C_{LA} = 0pF, R_A = 1.6k\Omega, \\ C_{LB} = 0pF, R_B = 180\Omega \end{array}$			115	- ns		
		I/OB_ = 0.5V _{DDB} to I/OA_ = 0.9V	$3.0V \le V_{DDA}$, $V_{DDB} \le 3.6V$, $C_{LA} = 0pF$, $R_A = 1k\Omega$, $C_{LB} = 0pF$, $R_B = 120\Omega$			115		
			$\begin{array}{l} 2.25 V \leq V_{DDA}, V_{DDB} \leq 2.75 V, \\ C_{LA} = 0pF, R_{A} = 810\Omega, \\ C_{LB} = 0pF, R_{B} = 91\Omega \end{array}$			125		
			$4.5V ≤ V_{DDA}, V_{DDB} ≤ 5.5V$			65		
	PWD _{AB}	t _{plhab} - t _{phlab}	$3.0V \le V_{DDA}, V_{DDB} \le 3.6V$			65		
Pulse-Width Distortion			$2.25V ≤ V_{DDA}, V_{DDB} ≤ 2.75V$			80	ns	
			4.5V ≤ V_{DDA} , V_{DDB} ≤ 5.5V			95		
	PWD _{BA}	t _{PLHBA} - t _{PHLBA}	$3.0V \le V_{DDA}, V_{DDB} \le 3.6V$			95		
			$2.25V \le V_{DDA}, V_{DDB} \le 2.75V$			100		

ESD Protection

PARAMETER	SYMBOL	CONDITIONS	MIN	TYP	MAX	UNITS
ESD		Human body model, all pins		±4		kV

Note 2: All devices are 100% production tested at $T_A = +125$ °C. Specifications over temperature are guaranteed by design.

Note 3: All currents into the device are positive; all currents out of the device are negative. All voltages are referenced to ground on the corresponding side of the device, unless otherwise noted.

Note 4: This is the minimum difference between the output logic-low level and the input logic threshold. This ensures that there is no possibility of the part latching up the bus to which it is connected.

Note 5: Not production tested. Guaranteed by design.

Note 6: CMTI is the maximum sustainable common-mode voltage slew rate while maintaining operation. CMTI applies to both rising and falling common-mode voltage edges. Tested with the transient generator connected between GNDA and GNDB (V_{CM} = 1000V).

Safety Regulatory Approvals

UL

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The MAX14937 is certified under UL1577. For more details, refer to file E351759.

Rated up to $5000V_{RMS}$ isolation voltage for single protection.

cUL (Equivalent to CSA notice 5A)

The MAX14934/MAX14936 are certified up to 5000V_{RMS} for single protection. For more details, refer to file 351759. **VDE**

The MAX14937 is certified to DIN V VDE V 0884-10 (VDE V 0884-10): 2006-12. For details, see file ref. 5015017-4880-0001/217630/EC22/SCT. Basic Insulation, Maximum Transient Isolation Voltage 8400V_{PK}, Maximum Working Voltage 848V_{RMS}

IEC Insulation Testing

The MAX14934/MAX14936 are tested under TUV.

IEC60950-1: Up to 1200VP (848V_{RMS}) working voltage for basic insulation.

IEC61010-1 (ed. 3): Up to 848V_{RMS} working voltage for basic insulation. For details, see Technical Report number 095-72100581-100.

IEC60601-1 (ed. 3): For details see Technical Report number 095-72100581-200.

Basic insulation 1 MOOP, 1200VPK (848VRMS)

Withstand isolation voltage for 60s (Viso) $5000V_{RMS}$

Insulation Characteristics

PARAMETER	SYMBOL	CONDITIONS	VALUE	UNITS
Partial Discharge Test Voltage	V _{PR}	Method B1 = V _{IORM} x 1.875 (t = 1s, partial discharge < 5pC)	2250	VP
Maximum Repetitive Peak Isolation Voltage	VIORM		1200	VP
Maximum Working Isolation Voltage	VIOWM		848	V _{RMS}
Maximum Transient Isolation Voltage	V _{IOTM}	t = 1s	8400	VP
Maximum Withstand Isolation Voltage	V _{ISO}	f_{SW} = 60Hz, duration = 60s	5000	V _{RMS}
Maximum Surge Isolation Voltage	V _{IOSM}	Basic insulation 1.2/50µs pulse	10	kV
Insulation Resistance	R _S	T _A = +150°C V _{IO} = 500V	> 10 ¹²	Ω
Barrier Capacitance Input to Output (Note 7)	CIO	f _{SW} = 1MHz	2	pF
Minimum Creepage Distance	CPG	Wide SOIC	8	mm
Minimum Clearance Distance	CLR	Wide SOIC	8	mm
Internal Clearance		Distance through insulation	0.015	mm
Comparative Tracking Resistance Index	СТІ	Material Group II (IEC 60112)	575	
Climatic Category			40/125/21	
Pollution Degree (DIN VDE 0110, Table 1)			2	

Note 7: Capacitance is measured with all pins on side A and side B tied together

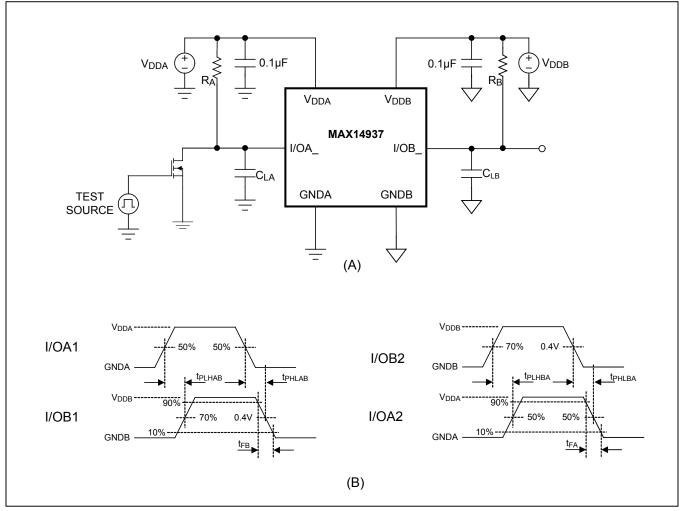
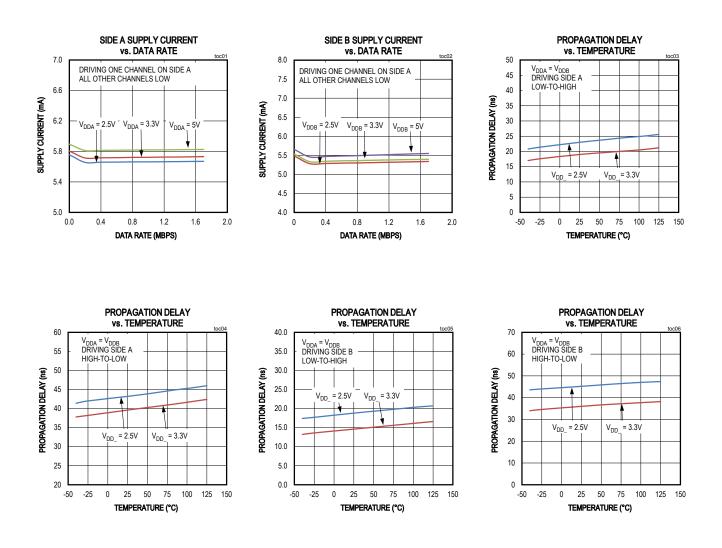


Figure 1. Test Circuit (A) and Timing Diagram (B)

Two Channel, 5kV_{RMS} I²C Isolator

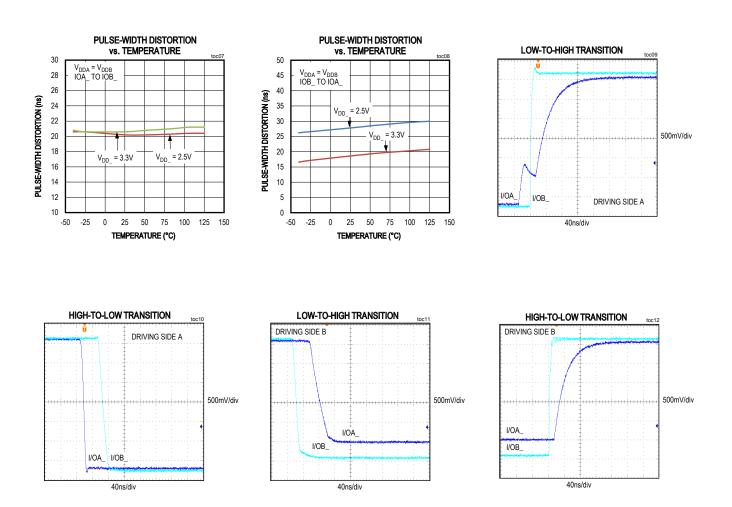
Typical Operating Characteristics

 V_{DDA} - V_{GNDA} = +3.3V, V_{DDB} - V_{GNDB} = +3.3V, V_{GNDA} = V_{GNDB} , T_A = +25°C, unless otherwise noted.



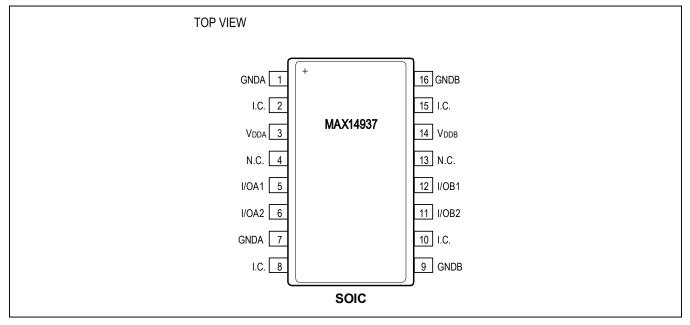
Two Channel, 5kV_{RMS} I²C Isolator

Typical Operating Characteristics (continued) VDDA - V_{GNDA} = +3.3V, V_{DDB} - V_{GNDB} = +3.3V, V_{GNDA} = V_{GNDB}, T_A = +25°C, unless otherwise noted.



Two Channel, 5kV_{RMS} I²C Isolator

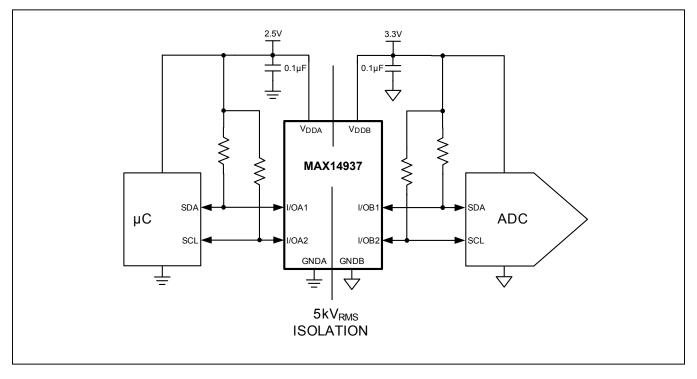
Pin Configuration



Pin Description

PIN	NAME	FUNCTION	VOLTAGE RELATIVE TO
1, 7	GNDA	Ground Reference For Side A. Ensure both pins 1 and 7 are connected to GNDA.	_
2, 8	I.C.	Internally Connected. Connect to GNDA or leave unconnected.	GNDA
3	V _{DDA}	Power Supply. Bypass $V_{\mbox{DDA}}$ with a $0.1\mu\mbox{F}$ ceramic capacitor as close as possible to the pin.	GNDA
4, 13	N.C.	No Connection. Not internally connected.	—
5	I/OA1	Bidirectional Input/Output 1 On Side A. I/OA1 is translated to/from I/OB1 and is an open-drain output.	GNDA
6	I/OA2	Bidirectional Input/Output 2 On Side A. I/OA2 is translated to/from I/OB2 and is an open-drain output.	GNDA
9, 16	GNDB	Ground Reference For Side B.	—
10, 15	I.C.	Internally Connected. Connect to GNDB or leave unconnected.	GNDB
11	I/OB2	Bidirectional Input/Output 2 On Side B. I/OB2 is translated to/from I/OA2 and is an open-drain output.	GNDB
12	I/OB1	Bidirectional Input/Output 1 On Side B. I/OB1 is translated to/from I/OA1 and is an open-drain output.	GNDB
14	V _{DDB}	Power Supply. Bypass V_{DDB} with a 0.1µF ceramic capacitor as close as possible to the pin.	GNDB

Typical Application Circuit



Detailed Description

The MAX14937 is a two-channel, $5kV_{RMS}$ l²C isolator utilizing Maxim's proprietary process technology. For applications requiring 2.75 kV_{RMS} of isolation, refer to the MAX14933 data sheet. The MAX14937 transfers digital signals between circuits with different power domains at ambient temperatures up to +125°C.

The device offers two bidirectional, open-drain channels for applications, such as I²C, that require data to be transmitted in both directions on the same line.

The device features independent 2.25V to 5.5V supplies on each side of the isolator. The device operates from DC to 1.7MHz and can be used in isolated I²C busses with clock stretching. The wide temperature range and high isolation voltage make the device ideal for use in harsh industrial environments.

Digital Isolation

The device provides galvanic isolation for digital signals that are transmitted between two ground domains. Up to $1200V_{PEAK}$ of continuous isolation is supported as well as transient differences of up to $5kV_{RMS}$ for up to 60s.

Bidirectional Channels

The device features two bidirectional channels that have open-drain outputs. The bidirectional channels do not require a direction-control input. A logic-low on one side causes the corresponding pin on the other side to be pulled low while avoiding data-latching within the device. The input logic-low thresholds (VII) of I/OA1 and I/OA2 are at least 50mV lower than the output logic-low voltages of I/OA1 and I/OA2. This prevents an output logic-low on side A from being accepted as an input low and subsequently transmitted to side B, thus preventing a latching action. The I/OA1, I/OA2, I/OB1, and I/OB2 pins have open-drain outputs, requiring pullup resistors to their respective supplies for logic-high outputs. The output low voltages are guaranteed for sink currents of up to 30mA for side B, and 3mA for side A (see the DC Electrical Characteristics table). The device supports I²C clock stretching.

Startup and Undervoltage Lockout

The V_{DDA} and V_{DDB} supplies are both internally monitored for undervoltage conditions. Undervoltage events can occur during power-up, power-down, or during normal operation due to a sagging supply voltage. When an undervoltage event is detected on either of the supplies, all bidirectional outputs become high-impedance and are pulled high by the external pullup resistor on the open-drain outputs (Table 1). Figure 2 through Figure 5 shows the behavior of the outputs during power-up and power-down.

Applications Information

Effect of Continuous Isolation on Lifetime

High-voltage conditions cause insulation to degrade over time. Higher voltages result in faster degradation. Even the high-quality insulating material used in the device can degrade over long periods of time with a constant high voltage across the isolation barrier.

Power-Supply Sequencing

The MAX14937 does not require special power-supply sequencing. The logic levels are set independently on either side by V_{DDA} and V_{DDB} . Each supply can be present over the entire specified range regardless of the level or presence of the other supply.

Power-Supply Decoupling

To reduce ripple and the chance of introducing data errors, bypass V_{DDA} and V_{DDB} with 0.1µF ceramic capacitors to GNDA and GNDB, respectively. Place the bypass capacitors as close as possible to the power-supply input.

Input/Output Capacitive Loads

For optimal performance, ensure that CLA ≤ 40pF and CLB ≤ 400pF.

Two Channel, 5kV_{RMS} I²C Isolator

V _{DDA}	V _{DDB}	V _{I/OA} _	V _{I/OB} _
Powered	Powered	1	1
Powered	Powered	0	0
Undervoltage	Powered	High-Z	Х
Powered	Undervoltage	Х	High-Z

TABLE 1. Output Behavior During Undervoltage Conditions

X = Don't care.

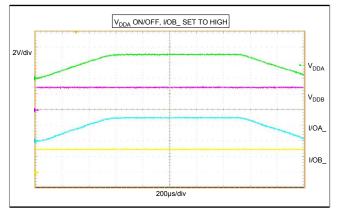


Figure 2. Undervoltage-Lockout Behavior (I/OB_ Set High)

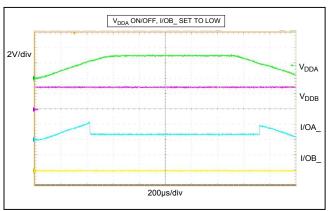


Figure 4. Undervoltage-Lockout Behavior (I/OB_ Set Low)

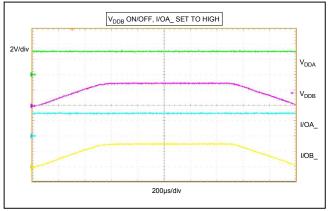


Figure 3. Undervoltage-Lockout Behavior (I/OA_ Set High)

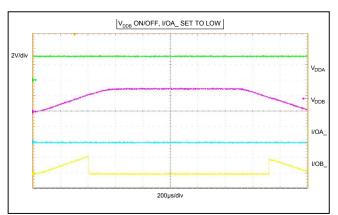


Figure 5. Undervoltage-Lockout Behavior (I/OA_ Set Low)

Two Channel, 5kV_{RMS} I²C Isolator

Ordering Information

PART	TEMP RANGE	PIN-PACKAGE
MAX14937AWE+	-40°C to +125°C	16 Wide SOIC

+Denotes a lead(Pb)-free/RoHS-compliant package.

Chip Information

PROCESS: BICMOS

Package Information

For the latest package outline information and land patterns (footprints), go to <u>www.maximintegrated.com/packages</u>. Note that a "+", "#", or "-" in the package code indicates RoHS status only. Package drawings may show a different suffix character, but the drawing pertains to the package regardless of RoHS status.

PACKAGE TYPE	PACKAGE CODE	OUTLINE NO.	LAND PATTERN NO.
16 Wide SOIC	W16M+8	<u>21-0042</u>	<u>90-0107</u>

Two Channel, 5kV_{RMS} I²C Isolator

Revision History

REVISION NUMBER	REVISION DATE	DESCRIPTION	PAGES CHANGED
0	3/15	Initial release	—
1	5/16	Updated TUV information and added IEC Insulation Testing table	1, 6
2	1/17	Removed VDE pending	6

For pricing, delivery, and ordering information, please contact Maxim Direct at 1-888-629-4642, or visit Maxim Integrated's website at www.maximintegrated.com.

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