

CA-IS372x High-Speed Dual-Channel Digital Isolators

1. Features

- **Data rate: DC to 150Mbps**
- **Robust isolation barrier**
 - High lifetime: >40 years
 - Up to 5000 V_{RMS} isolation rating (Wide body packages)
 - ±150 kV/μs typical CMTI
- **Wide supply range: 2.5V to 5.5V**
- **Wide operating temperature range: -40°C to 125°C**
- **No start-up initialization required**
- **Default output High (CA-IS372xH) and Low (CA-IS372xL) Options**
- **High electromagnetic immunity**
- **Low power consumption**
 - 1.5mA per channel at 1Mbps with V_{DD} = 5.0V
 - 6.6mA per channel at 100Mbps with V_{DD} = 5.0V
- **Best in class propagation delay and skew**
 - 12ns typical propagation delay
 - 2ns propagation delay skew (chip -to-chip)
 - 1ns pulse width distortion
 - 5ns minimum pulse width
- **Schmitt trigger inputs**
- **Package options**
 - Narrow-body SOIC8(S) package
 - Wide-body SOIC8(G) package
 - Wide-body SOIC16(W) package
- **Safety regulatory approvals**
 - VDE certification according to DIN EN IEC 60747-17(VDE 0884-17): 2021-10
 - UL certification according to UL 1577
 - CQC certification according to GB4943.1-2022
 - TUV certification

2. Applications

- Industrial Automation
- Motor Control
- Medical Systems
- Isolated Power Supplies
- Solar Inverters
- Isolated RS485, CAN, RS232 etc.

3. General Description

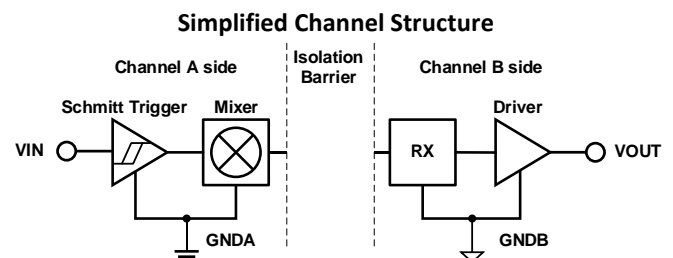
The CA-IS372x devices are high-performance dual - channel digital isolators with up to 3.75kV_{RMS} (narrow-body package) and 5kV_{RMS} (wide-body package) isolation rating and ultra-fast data rate. The CA-IS372x devices provide high electromagnetic immunity and low emissions at low power consumption, while isolating CMOS digital I/O. Each isolation channel has a logic input and output buffer separated by capacitive silicon dioxide (SiO₂) insulation barrier, and each channel input integrated Schmitt trigger to provide excellent noise immunity.

The CA-IS3720 features two channels transferring digital signals in one direction for applications such as isolated digital I/O. The CA-IS3721/CA-IS3722 devices have 2 channels with 1 channel in each direction, making them ideal for isolating the Tx and Rx lines of a transceiver, such as RS485, CAN etc. communication. When the input is either not powered or is open-circuit, the default output is low for devices with suffix L and high for devices with suffix H.

The CA-IS372x family are specified over the -40°C to +125°C operating temperature range and are available in 8-pin SOIC narrow body package, 8-pin SOIC wide body package and 16-pin SOIC wide body package.

Device information

Part number	Package	Package size (NOM)
CA-IS3720	SOIC8-NB (S)	4.90 mm × 3.90 mm
CA-IS3721	SOIC8-WB (G)	5.85 mm × 7.50 mm
CA-IS3722	SOIC16-WB (W)	10.30mm × 7.50 mm



GNDA and GNDB are the isolated grounds for A side and B side respectively.

4. Ordering Information

Table 4-1. Ordering Information

Part Number	Number of Inputs A Side	Number of Inputs B Side	Default Output	Isolation Rating (kV _{RMS})	Output Enable	Package
CA-IS3720LS	2	0	Low	3.75	N/A	SOIC8-NB
CA-IS3720LG	2	0	Low	5.0	N/A	SOIC8-WB
CA-IS3720LW	2	0	Low	5.0	N/A	SOIC16-WB
CA-IS3720HS	2	0	High	3.75	N/A	SOIC8-NB
CA-IS3720HG	2	0	High	5.0	N/A	SOIC8-WB
CA-IS3720HW	2	0	High	5.0	N/A	SOIC16-WB
CA-IS3721LS	1	1	Low	3.75	N/A	SOIC8-NB
CA-IS3721LG	1	1	Low	5.0	N/A	SOIC8-WB
CA-IS3721LW	1	1	Low	5.0	N/A	SOIC16-WB
CA-IS3721HS	1	1	High	3.75	N/A	SOIC8-NB
CA-IS3721HG	1	1	High	5.0	N/A	SOIC8-WB
CA-IS3721HW	1	1	High	5.0	N/A	SOIC16-WB
CA-IS3722LS	1	1	Low	3.75	N/A	SOIC8-NB
CA-IS3722LG	1	1	Low	5.0	N/A	SOIC8-WB
CA-IS3722LW	1	1	Low	5.0	N/A	SOIC16-WB
CA-IS3722HS	1	1	High	3.75	N/A	SOIC8-NB
CA-IS3722HG	1	1	High	5.0	N/A	SOIC8-WB
CA-IS3722HW	1	1	High	5.0	N/A	SOIC16-WB

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5. Revision History

Revision Number	Description	Revision Date	Page Changed
Version 1.00	N/A		N/A
Version 1.01	Changed V_{IORM} to 1414V, changed V_{IOWM} AC RMS value to 1000V and DC value to 1414V. Updated Power Ratings table.		8,11, 12, 13
Version 1.02	Changed $V_{IT+(IN)}$ minimum value to 2.0V, changed $V_{IT-(IN)}$ maximum value to 0.8V; removed $V_{I(HYS)}$.		10
Version 1.03	Changed the description of $V_{IT+(IN)}$ to logic input high level threshold, changed $V_{IT-(IN)}$ to logic input low level threshold		10
Version 1.04	Changed POD and tape reel information	2022/12/15	20,21,22,24
Version 1.05	Updated VDE Certification information	2023/09/01	9
Version 1.06	1.Updated VDE certification standard about V_{IMP} and V_{IOSM} 2.Updated TUV Certification number of IEC 62368-1 standard	2024/04/01	9 10
Version 1.07	Change the TUV Certification number to the Client reference number Update the recommended land pattern of SOIC8-WB and SOIC16-WB	2024/09/26	8 21~22
Version 1.08	Add TUV certification for SOIC8-NB package for IEC 62368-1 standard	2024/12/17	8

6. Pin Configuration and Functions

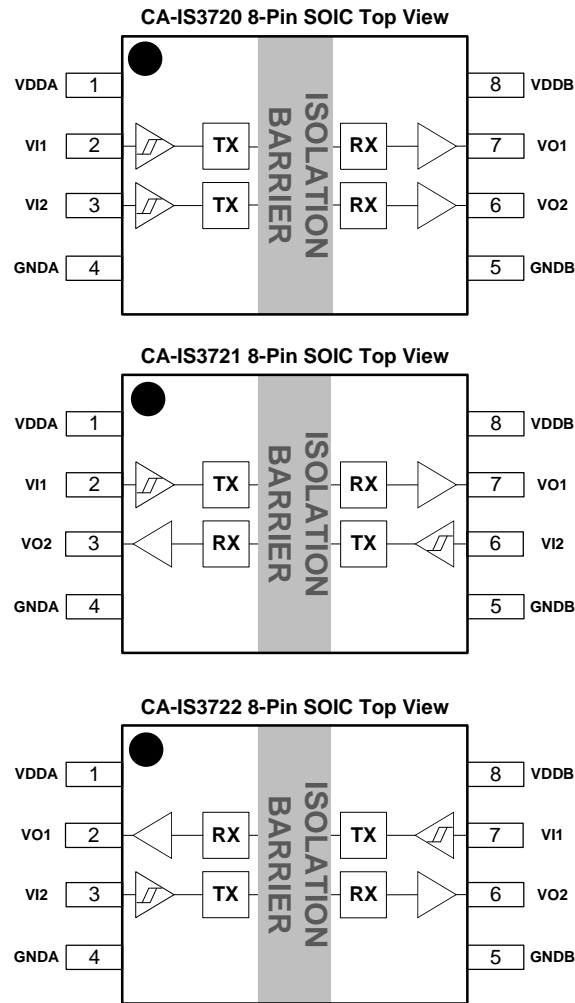


Figure 6-1. CA-IS372x 8-Pin SOIC Narrow body and 8-Pin Wide body SOIC Packages Top View

Table 6-1. Pin description for the CA-IS372x 8-Pin SOIC Narrow body and 8-Pin Wide body SOIC packages

SOIC8 Pin#			Name	Type	Description
CA-IS3720	CA-IS3721	CA-IS3722			
1	1	1	VDDA	Supply	Power supply for side A.
2	2	7	VI1	Digital I/O	Digital input 1 on side A/B, corresponds to logic output 1 on side B/A.
3	6	3	VI2	Digital I/O	Digital input 2 on side A/B, corresponds to logic output 2 on side B/A.
4	4	4	GNDA	Ground	Ground reference for side A.
5	5	5	GNDB	Ground	Ground reference for side B.
7	7	2	VO1	Digital I/O	Digital output 1 on side B/A, VO1 is the logic output for the VI1 input on side A/B.
6	3	6	VO2	Digital I/O	Digital output 2 on side B/A, VO2 is the logic output for the VI2 input on side A/B.
8	8	8	VDDB	Supply	Power supply for Side B.

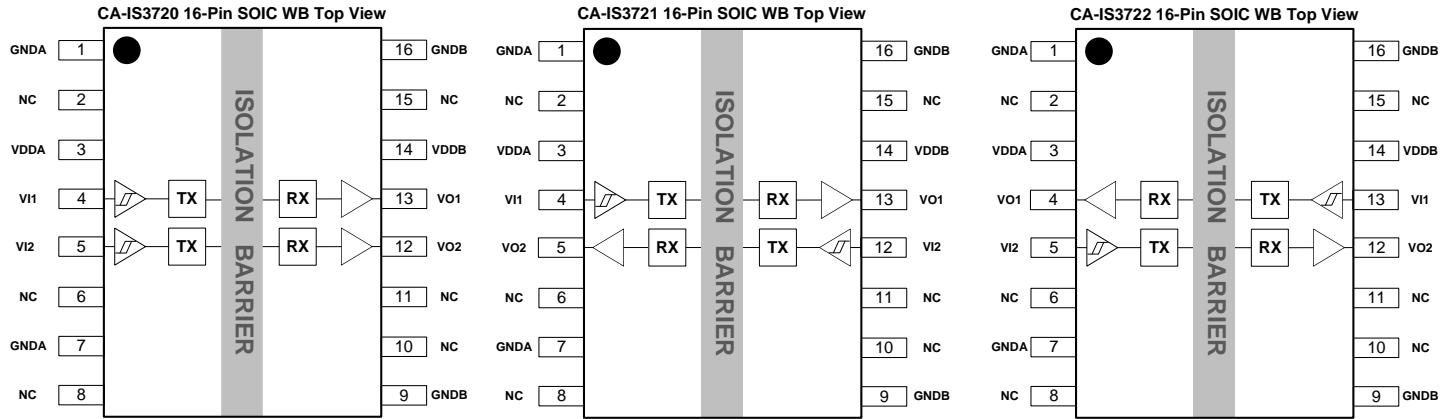


Figure 6-2. CA-IS372x 16-Pin SOIC Wide Body Package Top View

Table 6-2. Pin Description for the CA-IS372x 16-Pin SOIC Wide body package

SOIC-16 Pin#			Name	Type	Description
CA-IS3720	CA-IS3721	CA-IS3722			
1, 7	1, 7	1, 7	GND A	Ground	Ground reference for side A.
2, 6, 8	2, 6, 8	2, 6, 8	NC ¹	No Connect	Not internally connected. They can be left floating, tied to VDDA or tied to GND A.
3	3	3	VDD A	Supply	Power supply for side A.
4	4	13	VI1	Digital I/O	Digital input 1 on side A/B, corresponds to logic output 1 on side B/A.
5	12	5	VI2	Digital I/O	Digital input 2 on side A/B, corresponds to logic output 2 on side B/A.
10, 11, 15	10, 11, 15	10, 11, 15	NC ¹	No Connect	Not internally connected. They can be left floating, tied to VDD B or tied to GND B.
9, 16	9, 16	9, 16	GND B	Ground	Ground reference for side B.
13	13	4	VO1	Digital I/O	Digital output 1 on side B/A, VO1 is the logic output for the VI1 input on side A/B.
12	5	12	VO2	Digital I/O	Digital output 2 on side B/A, VO2 is the logic output for the VI2 input on side A/B.
14	14	14	VDD B	Supply	Power supply for side B.

Note:
1. No Connection. These pins are not internally connected. They can be left floating, tied to VDD_ or tied to GND_.

7. Specifications

7.1. Absolute Maximum Ratings¹

Parameters		Minimum value	Maximum value	Unit
V_{DDA}, V_{DDB}	Power supply voltage ²	-0.5	7.0	V
V_{IN}	Voltage at VIx, VOx, ENx	-0.5	$V_{DD-} + 0.5^3$	V
I_O	Output current	-20	20	mA
T_J	Operating Junction temperature		150	°C
T_{STG}	Storage temperature range	-65	150	°C

Notes:

- The stresses listed under “Absolute Maximum Ratings” are stress ratings only, not for functional operation condition. Exposure to absolute maximum rating conditions for extended periods may cause permanent damage to the device.
- All voltage values are with respect to the local ground terminal (GNDA or GNDB) and are peak voltage values.
- Maximum voltage must not be exceed 7 V.

7.2. ESD Ratings

		Numerical value	Unit
V_{ESD} Electrostatic discharge	Human body model (HBM), per ANSI/ESDA/JEDEC JS-001, all pins ¹	±6000	V
	Charged device model (CDM), per JEDEC Specification JESD22-C101, all pins ²	±2000	

Notes:

- Per JEDEC document JEP155, 500V HBM allows safe manufacturing of standard ESD control process.
- Per JEDEC document JEP157, 250V HBM allows safe manufacturing of standard ESD control process.

7.3. Recommended Operating Conditions

Parameters		Minimum value	Typical value	Maximum value	Unit
V_{DDA}, V_{DDB}	Supply Voltage	2.375	3.3	5.5	V
$V_{DD} (UVLO+)$	V_{DD} Undervoltage-Lockout Threshold When Supply Voltage is Rising	1.95	2.24	2.375	V
$V_{DD} (UVLO-)$	V_{DD} Undervoltage-Lockout Threshold When Supply Voltage is Falling	1.88	2.10	2.325	V
$V_{HYS} (UVLO)$	V_{DD} Undervoltage-Lockout Threshold Hysteresis	70	140	250	mV
I_{OH}	High-level Output Current	$V_{DDO}^1 = 5V$			mA
		$V_{DDO} = 3.3V$	-2		
		$V_{DDO} = 2.5V$	-1		
I_{OL}	Low-level Output Current	$V_{DDO} = 5V$		4	mA
		$V_{DDO} = 3.3V$		2	
		$V_{DDO} = 2.5V$		1	
V_{IH}	High-level Input Voltage	2.0			V
V_{IL}	Low-level Input Voltage			0.8	V
DR	Data Rate	0		150	Mbps
TA	Ambient Temperature	-40	27	125	°C

Note:

- V_{DDO} = Output-side supply V_{DD} .

7.4. Thermal Information

Thermal Metric	CA-IS372x			Unit
	SOIC8	SOIC8-WB(G)	SOIC16-WB(W)	
$R_{\theta JA}$ Junction-to-ambient thermal resistance	109.0	92.3	83.4	°C/W

7.5. Power Ratings

Parameters	Test Conditions	Minimum value	Typical value	Maximum value	Unit
CA-IS3720					
P_D Maximum Power Dissipation	$V_{DDA} = V_{DDB} = 5.5\text{ V}$, $C_L = 15\text{ pF}$, $T_J = 150^\circ\text{C}$, Input a 75-MHz 50% duty cycle square wave			120	mW
P_{DA} Maximum Power Dissipation on Side-A				20	mW
P_{DB} Maximum Power Dissipation on Side-B				100	mW
CA-IS3721					
P_D Maximum Power Dissipation	$V_{DDA} = V_{DDB} = 5.5\text{ V}$, $C_L = 15\text{ pF}$, $T_J = 150^\circ\text{C}$, Input a 75-MHz 50% duty cycle square wave			120	mW
P_{DA} Maximum Power Dissipation on Side-A				60	mW
P_{DB} Maximum Power Dissipation on Side-B				60	mW
CA-IS3722					
P_D Maximum Power Dissipation	$V_{DDA} = V_{DDB} = 5.5\text{ V}$, $C_L = 15\text{ pF}$, $T_J = 150^\circ\text{C}$, Input a 75-MHz 50% duty cycle square wave			120	mW
P_{DA} Maximum Power Dissipation on Side-A				60	mW
P_{DB} Maximum Power Dissipation on Side-B				60	mW

7.6. Insulation Specifications

Parameters		Test Conditions	Value		Unit
			G/W	S	
CLR	External clearance	Shortest terminal-to-terminal distance through air	8	4	mm
CPG	External creepage	Shortest terminal-to-terminal distance across the package surface	8	4	mm
DTI	Distance through the insulation	Minimum internal gap (internal clearance)	28	28	μm
CTI	Comparative tracking index	DIN EN 60112 (VDE 0303-11); IEC 60112	>600	>600	V
	Material group	According to IEC 60664-1	I	I	
	Overvoltage category per IEC 60664-1	Rated mains voltage ≤ 150 V _{RMS}	I-IV	I-IV	
		Rated mains voltage ≤ 300 V _{RMS}	I-IV	I-III	
		Rated mains voltage ≤ 600 V _{RMS}	I-IV	n/a	
		Rated mains voltage ≤ 1000 V _{RMS}	I-III	n/a	
DIN V VDE V 0884-17:2021-10¹					
V _{IORM}	Maximum repetitive peak isolation voltage	AC voltage (bipolar)	1414	566	V _{PK}
V _{IOWM}	Maximum working isolation voltage	AC voltage; Time dependent dielectric breakdown (TDDB) Test	1000	400	V _{RMS}
		DC voltage	1414	566	V _{DC}
V _{IOTM}	Maximum transient isolation voltage	V _{TEST} = V _{IOTM} , t = 60 s (qualification); V _{TEST} = 1.2 × V _{IOTM} , t = 1 s (100% production)	7070	5300	V _{PK}
V _{IMP}	Maximum impulse voltage	1.2/50 μs waveform per IEC 62368-1	8701	5000	V _{PK}
V _{IOSM}	Maximum surge isolation voltage ²	V _{IOSM} ≥ 1.3 × V _{IMP} ; Tested in oil (qualification test), 1.2/50 μs waveform per IEC 62368-1	11312	6500	V _{PK}
Q _{pd}	Apparent charge ³	Method a, After Input-Output safety test subgroup 2/3, V _{ini} = V _{IOTM} , t _{ini} = 60 s; V _{pd(m)} = 1.2 × V _{IORM} , t _m = 10 s	≤5	≤5	pC
		Method a, After environmental tests subgroup 1, V _{ini} = V _{IOTM} , t _{ini} = 60 s; V _{pd(m)} = 1.6 × V _{IORM} , t _m = 10 s	≤5	≤5	
		Method b, At routine test (100% production) and preconditioning (type test) V _{ini} = 1.2 × V _{IOTM} , t _{ini} = 1 s; V _{pd(m)} = 1.875 × V _{IORM} , t _m = 1 s (W/G) V _{pd(m)} = 1.5 × V _{IORM} , t _m = 1 s (S)	≤5	≤5	
C _{IO}	Barrier capacitance, input to output ⁴	V _{IO} = 0.4 × sin(2πft), f = 1 MHz	~0.5	~0.5	pF
R _{IO}	Isolation resistance ⁴	V _{IO} = 500 V, T _A = 25°C	>10 ¹²	>10 ¹²	Ω
		V _{IO} = 500 V, 100°C ≤ T _A ≤ 125°C	>10 ¹¹	>10 ¹¹	
		V _{IO} = 500 V at T _S = 150°C	>10 ⁹	>10 ⁹	
	Pollution degree		2	2	
UL 1577					
V _{ISO}	Maximum withstanding isolation voltage	V _{TEST} = V _{ISO} , t = 60 s (qualification), V _{TEST} = 1.2 × V _{ISO} , t = 1 s (100% production test)	5000	3750	V _{RMS}

Notes:

- This coupler is suitable for “safe electrical insulation” only within the safety ratings. Compliance with the safety ratings shall be ensured by means of suitable protective circuits.
- Devices are immersed in oil during surge characterization.
- The characterization charge is discharging charge (pd) caused by partial discharge.
- Capacitance and resistance are measured with all pins on field-side and logic-side tied together.

7.7. Safety-Related Certifications

VDE	UL	CQC	TUV
Certified according to DIN EN IEC 60747-17 (VDE 0884-17):2021-10; EN IEC 60747-17:2020+AC:2021	Certified according to UL 1577 Component Recognition Program	Certified according to GB 4943.1-2022	Certified according to EN 61010-1 and EN 62368-1
<p>Basic Isolation (SOIC8-NB): V_{IORM}: 566V_{pk} V_{IOTM}: 5300V_{pk} V_{IOSM}: 6500V_{pk}</p> <p>Reinforced Isolation (SOIC16-WB / SOIC8-WB): V_{IORM}: 1414V_{pk} V_{IOTM}: 7070V_{pk} V_{IOSM}: 11312V_{pk}</p>	<p>Single protection: SOIC8-NB: 3750V_{RMS} SOIC8-WB: 5000V_{RMS} SOIC16-WB: 5000V_{RMS}</p>	<p>SOIC8-NB: Basic insulation SOIC8-WB: Reinforced insulation SOIC16-WB: Reinforced insulation (Altitude ≤ 5000m)</p>	<p>EN 61010-1 SOIC8-WB: 5000V_{RMS} SOIC16-WB: 5000V_{RMS} SOIC8-NB: 3750V_{RMS}</p> <p>EN 62368-1 SOIC8-WB: 5000V_{RMS} SOIC16-WB: 5000V_{RMS} SOIC8-NB: 3750V_{RMS}</p>
<p>Certification number: 40057278(Reinforced) 40052786(Basic)</p>	<p>Certificate number: E511334</p>	<p>Certificate number: SOIC8-NB: CQC24001452685 SOIC8-WB: CQC24001434134 SOIC16-WB: CQC23001406424</p>	<p>Client reference number: 2253313</p>

7.8. Electrical Characteristics
7.8.1. $V_{DDA} = V_{DDB} = 5\text{ V} \pm 10\%$, $T_A = -40$ to 125°C

PARAMETER	TEST CONDITIONS	MIN	TYPE	MAX	UNIT
V_{OH}	High-level Output Voltage $I_{OH} = -4\text{mA}$; See Figure 8-1	$V_{DDO}^{1-0.4}$	4.8		V
V_{OL}	Low-level Output Voltage $I_{OL} = 4\text{mA}$; See Figure 8-1		0.2	0.4	V
$V_{IT+(IN)}$	Logic input high level threshold	2.0			V
$V_{IT-(IN)}$	Logic input low level threshold			0.8	V
I_{IH}	High-Level Input Leakage Current $V_{IH} = V_{DDA}$ at INx or ENx			20	μA
I_{IL}	Low-Level Input Leakage Current $V_{IL} = 0\text{ V}$ at INx	-20			μA
Z_O	Output Impedance ²		50		Ω
CMTI	Common-mode Transient Immunity $V_I = V_{DDI}^1$ or 0 V , $V_{CM} = 1200\text{ V}$; See Figure 8-3	100	150		$\text{kV}/\mu\text{s}$
C_I	Input Capacitance ³ $V_I = V_{DD}/2 + 0.4 \times \sin(2\pi ft)$, $f = 1\text{ MHz}$, $V_{DD} = 5\text{ V}$		2		pF

Notes:

- V_{DDI} = Input-side VDD supply voltage, V_{DDO} = Output-side VDD supply voltage.
- The nominal output impedance of each isolator driver is $50\ \Omega \pm 40\%$.
- Measured from pin to Ground.

7.8.2. $V_{DDA} = V_{DDB} = 3.3\text{ V} \pm 10\%$, $T_A = -40$ to 125°C

PARAMETER	TEST CONDITIONS	MIN	TYPE	MAX	UNIT
V_{OH}	High-level Output Voltage $I_{OH} = -2\text{mA}$; See Figure 8-1	$V_{DDO}^{1-0.4}$	3.1		V
V_{OL}	Low-level Output Voltage $I_{OL} = 2\text{mA}$; See Figure 8-1		0.2	0.4	V
$V_{IT+(IN)}$	Logic input high level threshold	2.0			V
$V_{IT-(IN)}$	Logic input low level threshold			0.8	V
I_{IH}	High-Level Input Leakage Current $V_{IH} = V_{DDA}$ at Ax or Bx or ENx			20	μA
I_{IL}	Low-Level Input Leakage Current $V_{IL} = 0\text{ V}$ at Ax or Bx	-20			μA
Z_O	Output Impedance ²		50		Ω
CMTI	Common-mode Transient Immunity $V_I = V_{DDI}^1$ or 0 V , $V_{CM} = 1200\text{ V}$; See Figure 8-3	100	150		$\text{kV}/\mu\text{s}$
C_I	Input Capacitance ³ $V_I = V_{DD}/2 + 0.4 \times \sin(2\pi ft)$, $f = 1\text{ MHz}$, $V_{DD} = 3.3\text{ V}$		2		pF

Notes:

- V_{DDI} = Input-side VDD supply voltage, V_{DDO} = Output-side VDD supply voltage.
- The nominal output impedance of each isolator driver is $50\ \Omega \pm 40\%$.
- Measured from pin to Ground.

7.8.3. $V_{DDA} = V_{DDB} = 2.5\text{ V} \pm 5\%$, $T_A = -40$ to 125°C

PARAMETER	TEST CONDITIONS	MIN	TYPE	MAX	UNIT
V_{OH}	High-level Output Voltage $I_{OH} = -1\text{mA}$; See Figure 8-1	$V_{DDO}^{1-0.4}$	2.3		V
V_{OL}	Low-level Output Voltage $I_{OL} = 1\text{mA}$; See Figure 8-1		0.2	0.4	V
$V_{IT+(IN)}$	Logic input high level threshold			2.0	V
$V_{IT-(IN)}$	Logic input low level threshold	0.8			V
I_{IH}	High-Level Input Leakage Current $V_{IH} = V_{DDA}$ at Ax or Bx or ENx			20	μA
I_{IL}	Low-Level Input Leakage Current $V_{IL} = 0\text{ V}$ at Ax or Bx	-20			μA
Z_O	Output Impedance ²		50		Ω
CMTI	Common-mode Transient Immunity $V_I = V_{DDI}^1$ or 0 V , $V_{CM} = 1200\text{ V}$; See Figure 8-3	100	150		$\text{kV}/\mu\text{s}$
C_I	Input Capacitance ³ $V_I = V_{DD}/2 + 0.4 \times \sin(2\pi ft)$, $f = 1\text{ MHz}$, $V_{DD} = 3.3\text{ V}$		2		pF

Notes:

- V_{DDI} = Input-side VDD supply voltage, V_{DDO} = Output-side VDD supply voltage.
- The nominal output impedance of each isolator driver is $50\ \Omega \pm 40\%$.
- Measured from pin to Ground.

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7.9. Supply Current Characteristics
7.9.1. $V_{DDA} = V_{DDB} = 5\text{ V} \pm 10\%$, $T_A = -40\text{ to }125^\circ\text{C}$

PARAMETER	TEST CONDITIONS	SUPPLY CURRENT	MIN	TYP	MAX	UNIT	
CA-IS3720							
Supply Current – DC Signal	$V_{IN} = 0\text{V}$ (CA-IS3720L); $V_{IN} = V_{DDI}^1$ (CA-IS3720H)	I_{DDA}		0.9	1.3	mA	
		I_{DDB}		1.4	2.2		
	$V_{IN} = V_{DDI}$ (CA-IS3720L); $V_{IN} = 0\text{V}$ (CA-IS3720H)	I_{DDA}		2.5	4.1		
		I_{DDB}		1.5	2.3		
Supply Current – AC Signal	All Channels Switching with 5V, 50% Duty Cycle Square Wave Clock Input; $C_L = 15\text{ pF}$ for Each Channel.	1Mbps (500kHz)	I_{DDA}		1.7		2.7
			I_{DDB}		2.2		3.2
		10Mbps (5MHz)	I_{DDA}		1.8		2.9
			I_{DDB}		8.8		11.8
		100Mbps (50MHz)	I_{DDA}		2.5	3.9	
			I_{DDB}		22	30.0	
CA-IS3721							
Supply Current – DC Signal	$V_{IN} = 0\text{V}$ (CA-IS3721L); $V_{IN} = V_{DDI}$ (CA-IS3721H)	I_{DDA}		1.6	3.2	mA	
		I_{DDB}		1.6	3.2		
	$V_{IN} = V_{DDI}$ (CA-IS3721L); $V_{IN} = 0\text{V}$ (CA-IS3721H)	I_{DDA}		2.9	5.8		
		I_{DDB}		2.9	5.8		
Supply Current – AC Signal	All Channels Switching with 5V, 50% Duty Cycle Square Wave Clock Input; $C_L = 15\text{ pF}$ for Each Channel.	1Mbps (500kHz)	I_{DDA}		2.1		3.2
			I_{DDB}		2.1		3.2
		10Mbps (5MHz)	I_{DDA}		5.6		7.8
			I_{DDB}		5.6		7.8
		100Mbps (50MHz)	I_{DDA}		12.9	22	
			I_{DDB}		12.9	22	
CA-IS3722							
Supply Current – DC Signal	$V_{IN} = 0\text{V}$ (CA-IS3722L); $V_{IN} = V_{DDI}$ (CA-IS3722H)	I_{DDA}		1.6	3.2	mA	
		I_{DDB}		1.6	3.2		
	$V_{IN} = V_{DDI}$ (CA-IS3722L); $V_{IN} = 0\text{V}$ (CA-IS3722H)	I_{DDA}		2.9	5.8		
		I_{DDB}		2.9	5.8		
Supply Current – AC Signal	All Channels Switching with 5V, 50% Duty Cycle Square Wave Clock Input; $C_L = 15\text{ pF}$ for Each Channel.	1Mbps (500kHz)	I_{DDA}		2.1		3.2
			I_{DDB}		2.1		3.2
		10Mbps (5MHz)	I_{DDA}		5.6		7.8
			I_{DDB}		5.6		7.8
		100Mbps (50MHz)	I_{DDA}		12.9	22	
			I_{DDB}		12.9	22	
Note:							
1. V_{DDI} = Input-side supply voltage V_{DD} .							

CA-IS3720, CA-IS3721, CA-IS3722
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7.9.2. $V_{DDA} = V_{DDB} = 3.3 V \pm 10\%$, $T_A = -40$ to $125^\circ C$

PARAMETER	TEST CONDITIONS		SUPPLY CURRENT	MIN	TYP	MAX	UNIT		
CA-IS3720									
Supply Current – DC Signal	$V_{IN} = 0V$ (CA-IS3720L); $V_{IN} = V_{DDI}^1$ (CA-IS3720H)		I_{DDA}	0.8	1.3		mA		
			I_{DDB}	1.3	2.0				
	$V_{IN} = V_{DDI}$ (CA-IS3720L); $V_{IN} = 0V$ (CA-IS3720H)		I_{DDA}	2.4	4.0				
			I_{DDB}	1.4	2.2				
Supply Current – AC Signal	All Channels Switching with 3.3V, 50% Duty Cycle Square Wave Clock Input; CL = 15 pF for Each Channel.		1Mbps (500kHz)	I_{DDA}	1.6	2.7			
			I_{DDB}	1.9	2.7				
			10Mbps (5MHz)	I_{DDA}	1.7	2.7			
			I_{DDB}	6.2	8.4				
			100Mbps (50MHz)	I_{DDA}	2.2	3.5			
			I_{DDB}	14.4	19.7				
CA-IS3721									
Supply Current – DC Signal	$V_{IN} = 0V$ (CA-IS3721L); $V_{IN} = V_{DDI}$ (CA-IS3721H)		I_{DDA}	1.2	1.9		mA		
			I_{DDB}	1.2	1.9				
	$V_{IN} = V_{DDI}$ (CA-IS3721L); $V_{IN} = 0V$ (CA-IS3721H)		I_{DDA}	2.3	3.3				
			I_{DDB}	2.3	3.3				
Supply Current – AC Signal	All Channels Switching with 3.3V, 50% Duty Cycle Square Wave Clock Input; CL = 15 pF for Each Channel.		1Mbps (500kHz)	I_{DDA}	1.9	2.9			
			I_{DDB}	1.9	2.9				
			10Mbps (5MHz)	I_{DDA}	4.2	5.9			
			I_{DDB}	4.2	5.9				
			100Mbps (50MHz)	I_{DDA}	8.8	12.1			
			I_{DDB}	8.8	12.1				
CA-IS3722									
Supply Current – DC Signal	$V_{IN} = 0V$ (CA-IS3722L); $V_{IN} = V_{DDI}$ (CA-IS3722H)		I_{DDA}	1.2	1.9		mA		
			I_{DDB}	1.2	1.9				
	$V_{IN} = V_{DDI}$ (CA-IS3722L); $V_{IN} = 0V$ (CA-IS3722H)		I_{DDA}	2.3	3.3				
			I_{DDB}	2.3	3.3				
Supply Current – AC Signal	All Channels Switching with 3.3V, 50% Duty Cycle Square Wave Clock Input; CL = 15 pF for Each Channel.		1Mbps (500kHz)	I_{DDA}	1.9	2.9			
			I_{DDB}	1.9	2.9				
			10Mbps (5MHz)	I_{DDA}	4.2	5.9			
			I_{DDB}	4.2	5.9				
			100Mbps (50MHz)	I_{DDA}	8.8	12.1			
			I_{DDB}	8.8	12.1				
Note:									
1. V_{DDI} = Input-side supply V_{DD} .									

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7.9.3. $V_{DDA} = V_{DDB} = 2.5\text{ V} \pm 5\%$, $T_A = -40$ to 125°C

PARAMETER	TEST CONDITIONS		SUPPLY CURRENT	MIN	TYP	MAX	UNIT	
CA-IS3720								
Supply Current – DC Signal	$V_{IN} = 0\text{V}$ (CA-IS3720L); $V_{IN} = V_{DDI}^1$ (CA-IS3720H)		I_{DDA}	0.8	1.2		mA	
			I_{DDB}	1.4	2.0			
	$V_{IN} = V_{DDI}$ (CA-IS3720L); $V_{IN} = 0\text{V}$ (CA-IS3720H)		I_{DDA}	2.4	4.0			
			I_{DDB}	1.4	2.1			
Supply Current – AC Signal	All Channels Switching with 2.5V, 50% Duty Cycle Square Wave Clock Input; CL = 15 pF for Each Channel.		1Mbps (500kHz)	I_{DDA}	1.6	2.6		
			10Mbps (5MHz)	I_{DDB}	1.7	2.5		
				I_{DDA}	1.7	2.7		
			100Mbps (50MHz)	I_{DDB}	5.0	6.8		
				I_{DDA}	2.1	3.4		
			I_{DDB}	10.8	14.7			
CA-IS3721								
Supply Current – DC Signal	$V_{IN} = 0\text{V}$ (CA-IS3721L); $V_{IN} = V_{DDI}$ (CA-IS3721H)		I_{DDA}	1.5	1.9		mA	
			I_{DDB}	1.5	1.9			
	$V_{IN} = V_{DDI}$ (CA-IS3721L); $V_{IN} = 0\text{V}$ (CA-IS3721H)		I_{DDA}	2.1	3.1			
			I_{DDB}	2.1	3.1			
Supply Current – AC Signal	All Channels Switching with 2.5V, 50% Duty Cycle Square Wave Clock Input; CL = 15 pF for Each Channel.		1Mbps (500kHz)	I_{DDA}	1.9	2.8		
			10Mbps (5MHz)	I_{DDB}	1.9	2.8		
				I_{DDA}	3.6	5.2		
			100Mbps (50MHz)	I_{DDB}	3.6	5.2		
				I_{DDA}	6.9	9.5		
			I_{DDB}	6.9	9.5			
CA-IS3722								
Supply Current – DC Signal	$V_{IN} = 0\text{V}$ (CA-IS3722L); $V_{IN} = V_{DDI}$ (CA-IS3722H)		I_{DDA}	1.5	1.9		mA	
			I_{DDB}	1.5	1.9			
	$V_{IN} = V_{DDI}$ (CA-IS3722L); $V_{IN} = 0\text{V}$ (CA-IS3722H)		I_{DDA}	2.1	3.1			
			I_{DDB}	2.1	3.1			
Supply Current – AC Signal	All Channels Switching with 2.5V, 50% Duty Cycle Square Wave Clock Input; CL = 15 pF for Each Channel.		1Mbps (500kHz)	I_{DDA}	1.9	2.8		
			10Mbps (5MHz)	I_{DDB}	1.9	2.8		
				I_{DDA}	3.6	5.2		
			100Mbps (50MHz)	I_{DDB}	3.6	5.2		
				I_{DDA}	6.9	9.5		
			I_{DDB}	6.9	9.5			
Note:								
1. V_{DDI} = Input-side supply V_{DD} .								

7.10. Timing Characteristics
7.10.1. $V_{DDA} = V_{DDB} = 5V \pm 10\%$, $T_A = -40$ to 125°C

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
DR Data Rate		0		150	Mbps
PW_{\min} Minimum Pulse Width				5.0	ns
t_{PLH} , t_{PHL} Propagation Delay Time	See Figure 8-1	5.0	12.0	15.0	ns
PWD Pulse Width Distortion $ t_{PLH} - t_{PHL} $					
$t_{sk(o)}$ Channel-to-channel Output Skew Time ¹	Same-direction		0.4	2.5	ns
$t_{sk(pp)}$ Chip -to-chip Output Skew Time ²			2.0	4.5	ns
t_r Output Signal Rise Time	See Figure 8-1		2.5	4.0	ns
t_f Output Signal Fall Time	See Figure 8-1		2.5	4.0	ns
t_{DO} Default Output Delay Time from Input Power Loss	See Figure 8-2		8	12	ns
t_{SU} Start-up Time			15	40	μs

Notes:

- $t_{sk(o)}$ is the skew between outputs of a single device with all driving inputs connected together and the outputs switching in the same direction while driving identical loads.
- $t_{sk(pp)}$ is the magnitude of the difference in propagation delay times between any terminals of different devices switching in the same direction while operating at identical supply voltages, temperature, input signals and loads.

7.10.2. $V_{DDA} = V_{DDB} = 3.3V \pm 10\%$, $T_A = -40$ to 125°C

PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
DR Data Rate		0		150	Mbps
PW_{\min} Minimum Pulse Width				5.0	ns
t_{PLH} , t_{PHL} Propagation Delay Time	See Figure 8-1	5.0	12.0	15.0	ns
PWD Pulse Width Distortion $ t_{PLH} - t_{PHL} $					
$t_{sk(o)}$ Channel-to-channel Output Skew Time ¹	Same-direction		0.4	2.5	ns
$t_{sk(pp)}$ Chip -to-chip Output Skew Time ²			2.0	4.5	ns
t_r Output Signal Rise Time	See Figure 8-1		2.5	4.0	ns
t_f Output Signal Fall Time	See Figure 8-1		2.5	4.0	ns
t_{DO} Default Output Delay Time from Input Power Loss	See Figure 8-2		8	12	ns
t_{SU} Start-up Time			15	40	μs

Notes:

- $t_{sk(o)}$ is the skew between outputs of a single device with all driving inputs connected together and the outputs switching in the same direction while driving identical loads.
- $t_{sk(pp)}$ is the magnitude of the difference in propagation delay times between any terminals of different devices switching in the same direction while operating at identical supply voltages, temperature, input signals and loads.

7.10.3. $V_{DDA} = V_{DDB} = 2.5V \pm 5\%$, $T_A = -40$ to 125°C

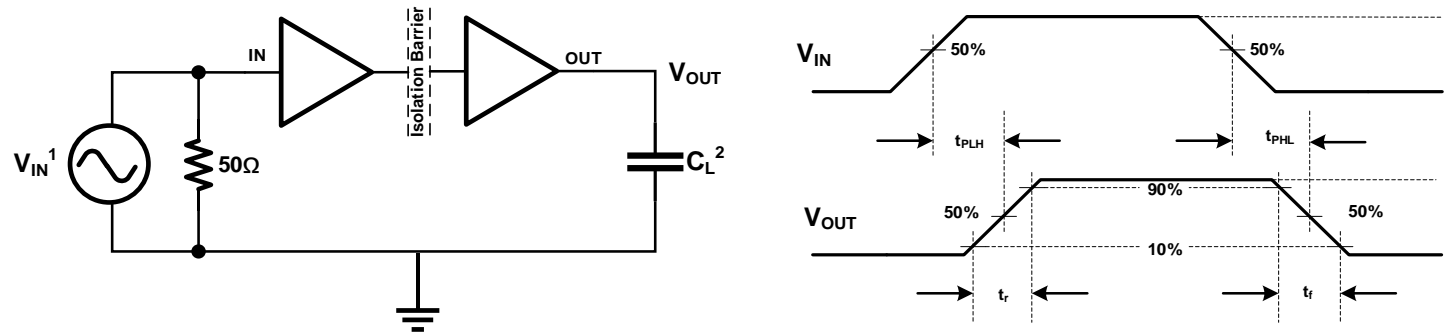
PARAMETER	TEST CONDITIONS	MIN	TYP	MAX	UNIT
DR Data Rate		0		150	Mbps
PW_{\min} Minimum Pulse Width				5.0	ns
t_{PLH} , t_{PHL} Propagation Delay Time	See Figure 8-1	5.0	12.0	15.0	ns
PWD Pulse Width Distortion $ t_{PLH} - t_{PHL} $					
$t_{sk(o)}$ Channel-to-channel Output Skew Time ¹	Same-direction		0.4	2.5	ns
$t_{sk(pp)}$ Chip -to-chip Output Skew Time ²			2.0	5.0	ns
t_r Output Signal Rise Time	See Figure 8-1		2.5	4.0	ns
t_f Output Signal Fall Time	See Figure 8-1		2.5	4.0	ns
t_{DO} Default Output Delay Time from Input Power Loss	See Figure 8-2		8	12	ns
t_{SU} Start-up Time			15	40	μs

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Notes:

1. $t_{sk(o)}$ is the skew between outputs of a single device with all driving inputs connected together and the outputs switching in the same direction while driving identical loads.
2. $t_{sk(pp)}$ is the magnitude of the difference in propagation delay times between any terminals of different devices switching in the same direction while operating at identical supply voltages, temperature, input signals and loads.

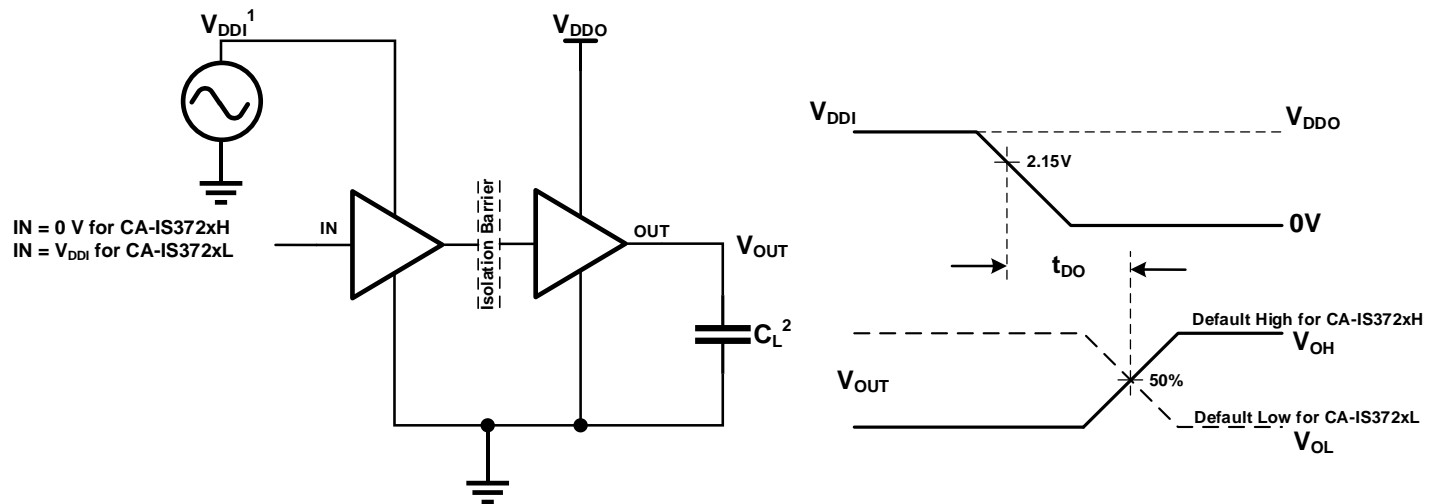
8. Parameter Measurement Information



Notes:

1. A square wave generator provide V_{IN} input signal with characteristics: frequency $\leq 100\text{kHz}$, 50% duty cycle, $t_r \leq 3\text{ns}$, $t_f \leq 3\text{ns}$, $Z_{out} = 50\Omega$. At the input, 50Ω resistor is required to terminate input generator signal. It is not needed in actual application.
2. $C_L = 15\text{pF}$ and includes external circuit (instrumentation and fixture etc.) capacitance. Since the load capacitance influence the output rising time, it's a key factor in the timing characteristic measurement.

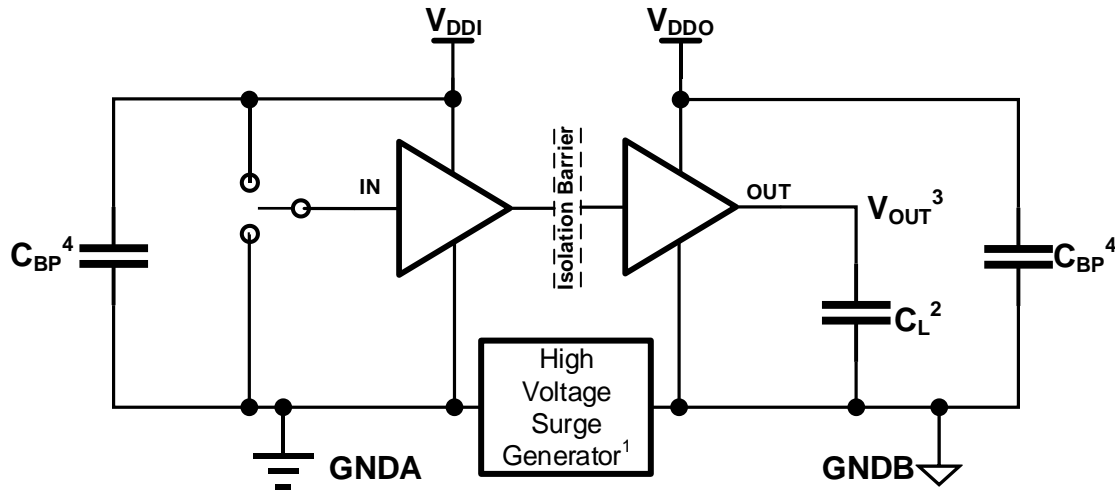
Figure 8-1. Switching Characteristics Test Circuit and Voltage Waveforms



Notes:

1. Power Supply Ramp Rate = 10 mV/ns . V_{DD1} should be over 2.15V and less than 5.5V .
2. $C_L = 15\text{pF}$ and includes external circuit (instrumentation and fixture etc.) capacitance. Since the load capacitance influence the output rising time, it's a key factor in the timing characteristic measurement.

Figure 8-2. Default Output Delay Time Test Circuit and Voltage Waveforms



Notes:

1. The High Voltage Surge Generator generates repetitive surges with > 1kV, <10ns rise time and fall time to reach common-mode transient noise with > 100kV/ μ s slew rate.
2. $C_L = 15\text{pF}$ and includes external circuit (instrumentation and fixture etc.) capacitance.
3. Pass-fail criteria: The output must remain stable whenever the high voltage surges occurs.
4. C_{BP} is bypass capacitor, $0.1\mu\text{F} \sim 1\mu\text{F}$.

Figure 8-3. Common-Mode Transient Immunity Test Circuit

9. Detailed Description

9.1. Overview

The CA-IS372x devices are a family of 2-channel digital galvanic isolators using Chipanalog’s full differential capacitive isolation technology. These devices have an ON-OFF keying (OOK) modulation scheme to transfer digital signals across the SiO₂ based isolation barrier between circuits with different power domains. The transmitter sends a high frequency carrier across the barrier to represent one digital state and sends no signal to represent the other digital state. The receiver demodulates the signal and recovery input signal at output through a buffer stage. With this OOK architecture, the CA-IS372x family of devices build a robust data transmission path between different power domains, without any special start-up initialization requirements.

These devices also incorporate advanced full differential techniques to maximize the CMTI performance and minimize the radiated emissions due the high frequency carrier and IO buffer switching. The conceptual block diagram of a digital capacitive isolator, Figure 9-1, shows a functional block diagram of a typical channel; Figure 9-2 shows the operating waveform of a typical channel.

9.2. Functional Block Diagram

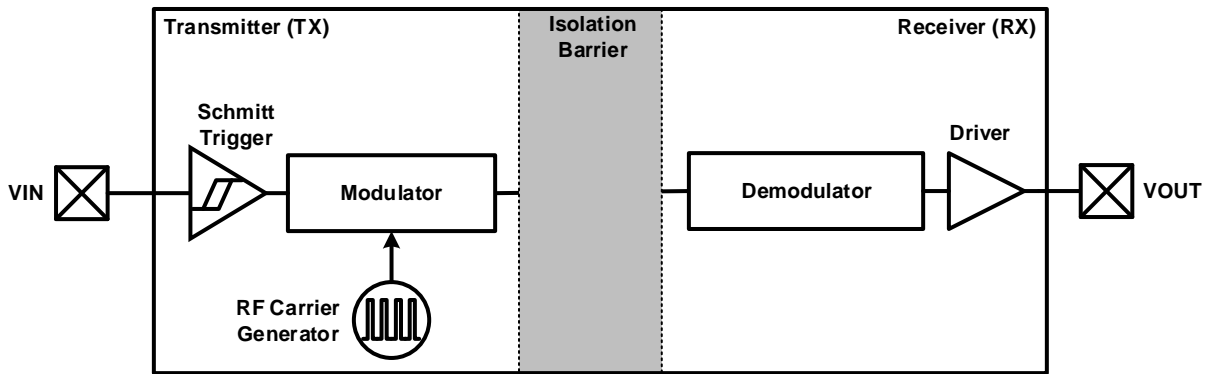


Figure 9-1. Functional Block Diagram of a Single Channel

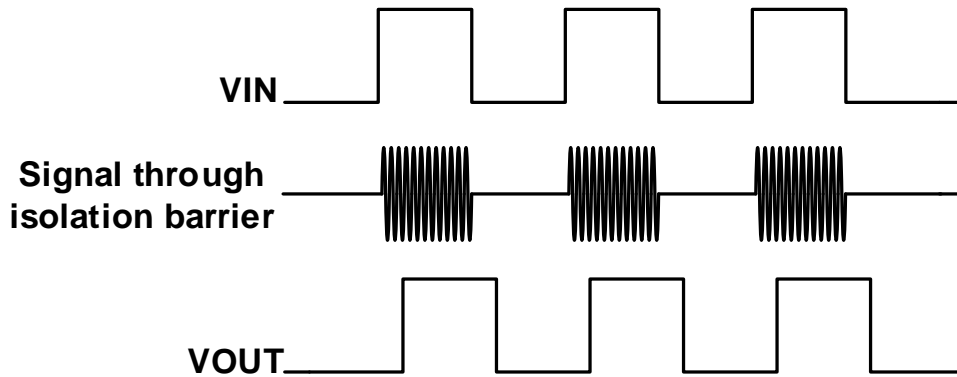


Figure 9-2. Conceptual Operation Waveform of a Single Channel

9.3. Device Operation Modes

Table 9-1 lists the operation modes for the CA-IS372x devices.

Table 9-1 Operation Mode Table

V_{DDI}^1	V_{DDO}	INPUT(A _x /B _x) ²	OUTPUT (A _x /B _x)	OPERATION
PU	PU	H	H	Normal operation mode: A channel output follows the logic state of the input.
		L	L	
		Open	Default	Default output, fail-safe mode: If a channel input is open, the corresponding channel output goes to the default logic state (Low for CA-IS372xL and High for CA-IS372xH)
PD	PU	X	Default	Default output, fail-safe mode: When V_{DDI} is unpowered, the corresponding channel output goes to the default logic state (Low for CA-IS372xL and High for CA-IS372xH)
X	PD	X	Undetermined	When V_{DDO} is unpowered, the output states are undetermined. ³

Notes:

- V_{DDI} = Input-side supply V_{DD} ; V_{DDO} = Output-side supply V_{DD} ; PU = Powered up ($V_{DD_} \geq V_{DD(UVLO+)}$); PD = Powered down ($V_{DD_} \leq V_{DD(UVLO-)}$); X = Irrelevant; H = High level; L = Low level.
- A strongly driven input signal can weakly power the floating VDD through an internal protection diode and cause undetermined output.
- The outputs are in undetermined state when $V_{DD(UVLO+)} < V_{DDI}$, $V_{DDO} < V_{DD(UVLO-)}$.

10. Application and Implementation

Unlike optocouplers, which require external components to improve performance, provide bias, or limit current, the CA-IS372x devices only require two external bypass capacitors to operate. To reduce ripple and the chance of introducing data errors, bypass VDDA and VDDB pins with 0.1μF to 1μF low-ESR ceramic capacitors to GNDA and GNDB, respectively. Place the bypass capacitors as close to the power supply input pins as possible. Figure 10-1 and Figure 10-2 show typical operating circuit of the CA-IS372x devices.

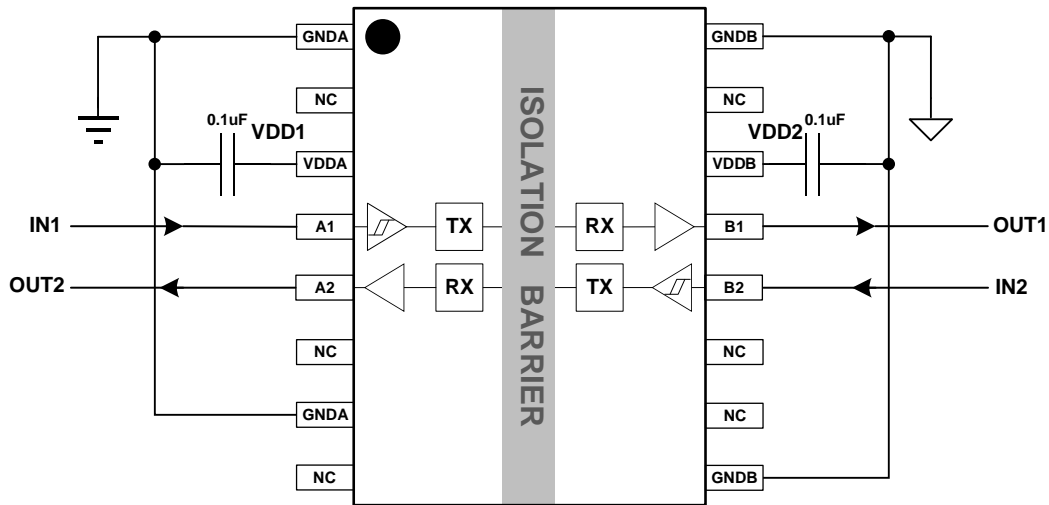


Figure 10-1. CA-IS3721 Typical Application Schematic

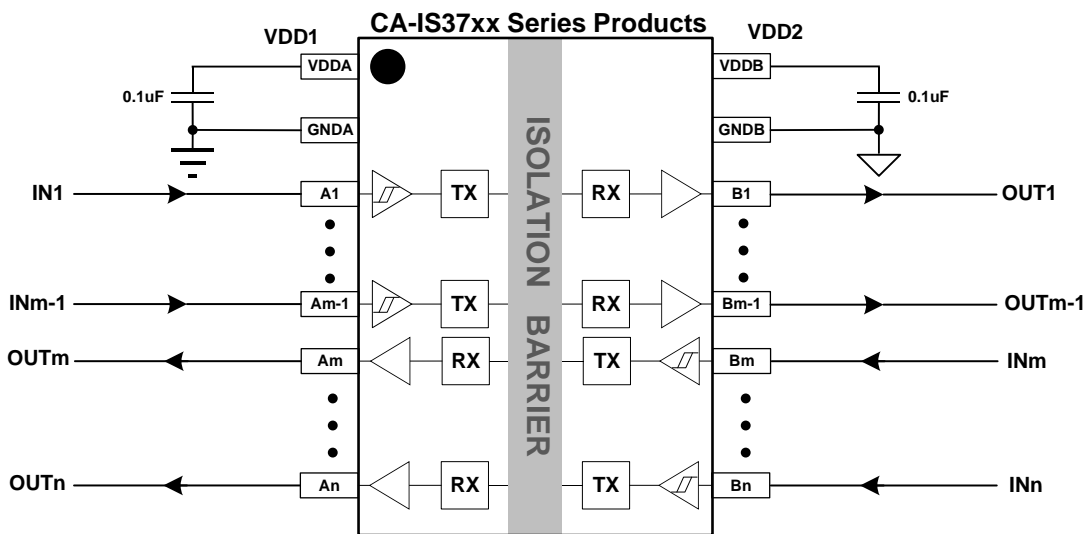
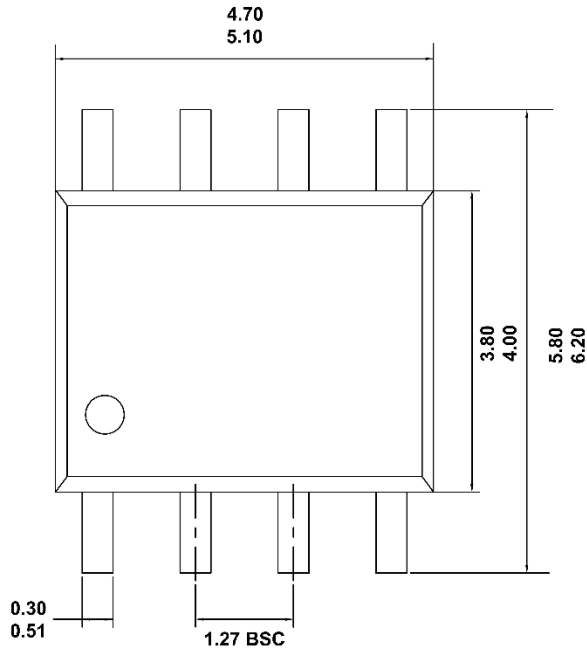
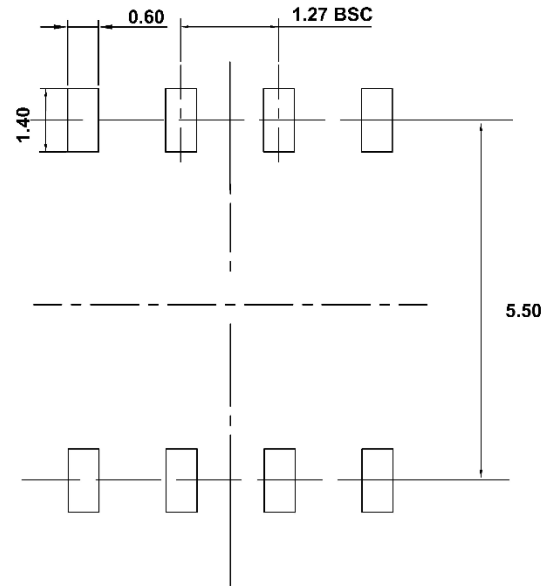
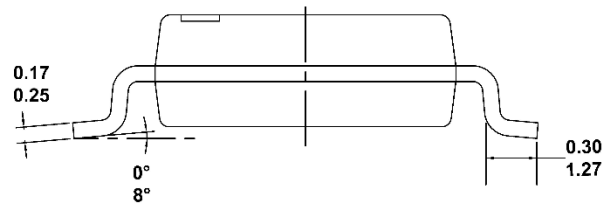
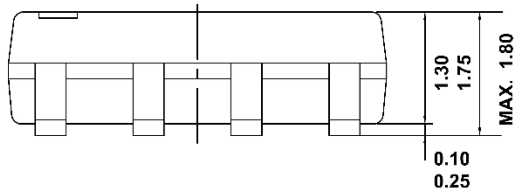


Figure 10-2. Typical Applications for the CA-IS37xx Series Digital Isolators

11. Package Information
11.1. 8-Pin SOIC Package Outline

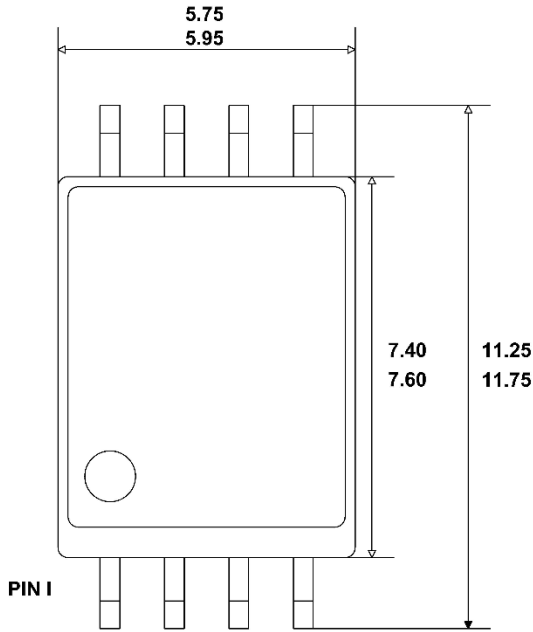
These figures show the package details and the recommended land pattern details for the CA-IS372x digital isolator in 8-pin narrow-body SOIC package. The values for the dimensions are shown in millimeters.


TOP VIEW

RECOMMENDED LAND PATTERN


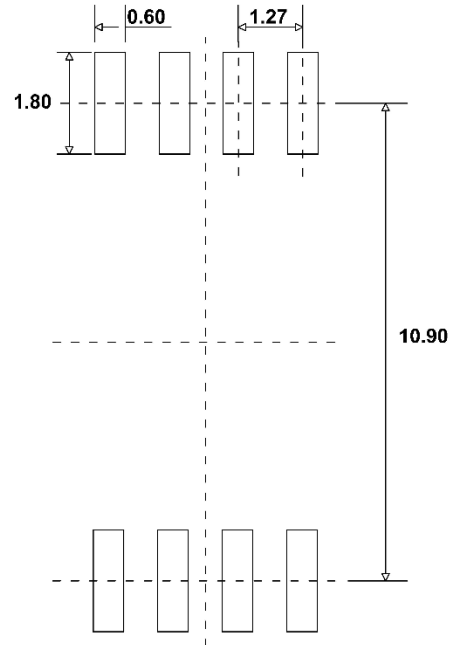
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11.2. 8-Pin Wide Body SOIC Package Outline

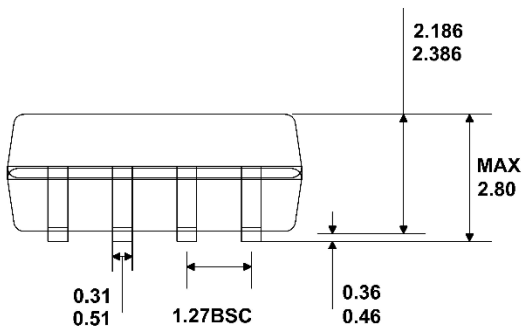
These figures show the package details and the recommended land pattern details for the CA-IS372x digital isolator in 8-pin wide body SOIC package. The values for the dimensions are shown in millimeters.



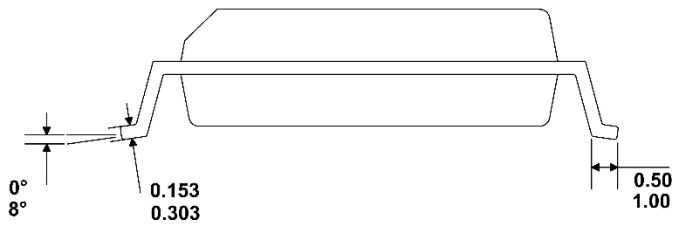
TOP VIEW



RECOMMENDED LAND PATTERN



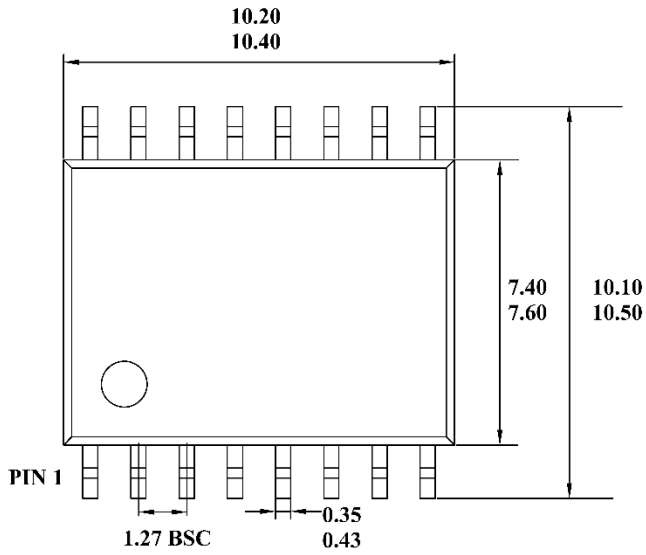
FRONT VIEW



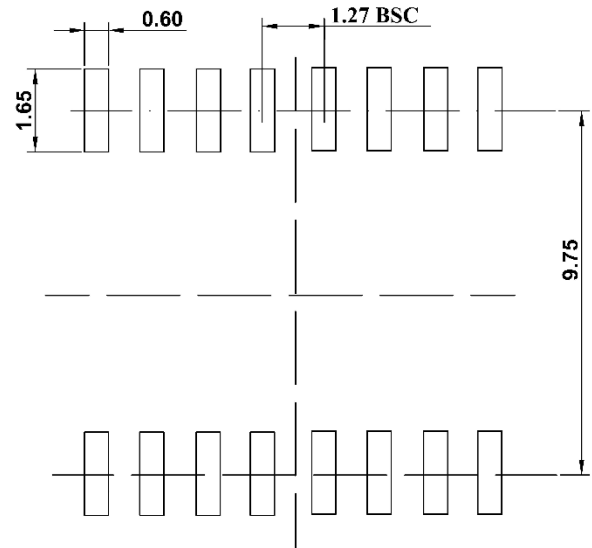
LEFT-SIDE VIEW

11.3. 16-Pin Wide Body SOIC Package Outline

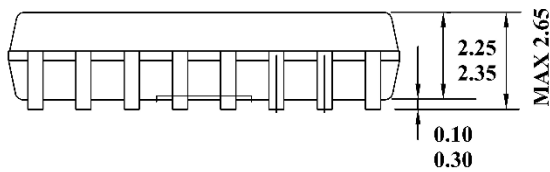
These figures show the package details and the recommended land pattern details for the CA-IS372x digital isolator in 16-pin wide body SOIC package. The values for the dimensions are shown in millimeters.



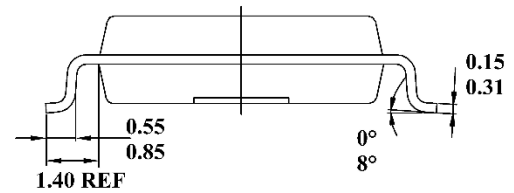
TOP VIEW



RECOMMENDED LAND PATTERN



FRONT VIEW



LEFT SIDE VIEW

12. Soldering Temperature (reflow) Profile

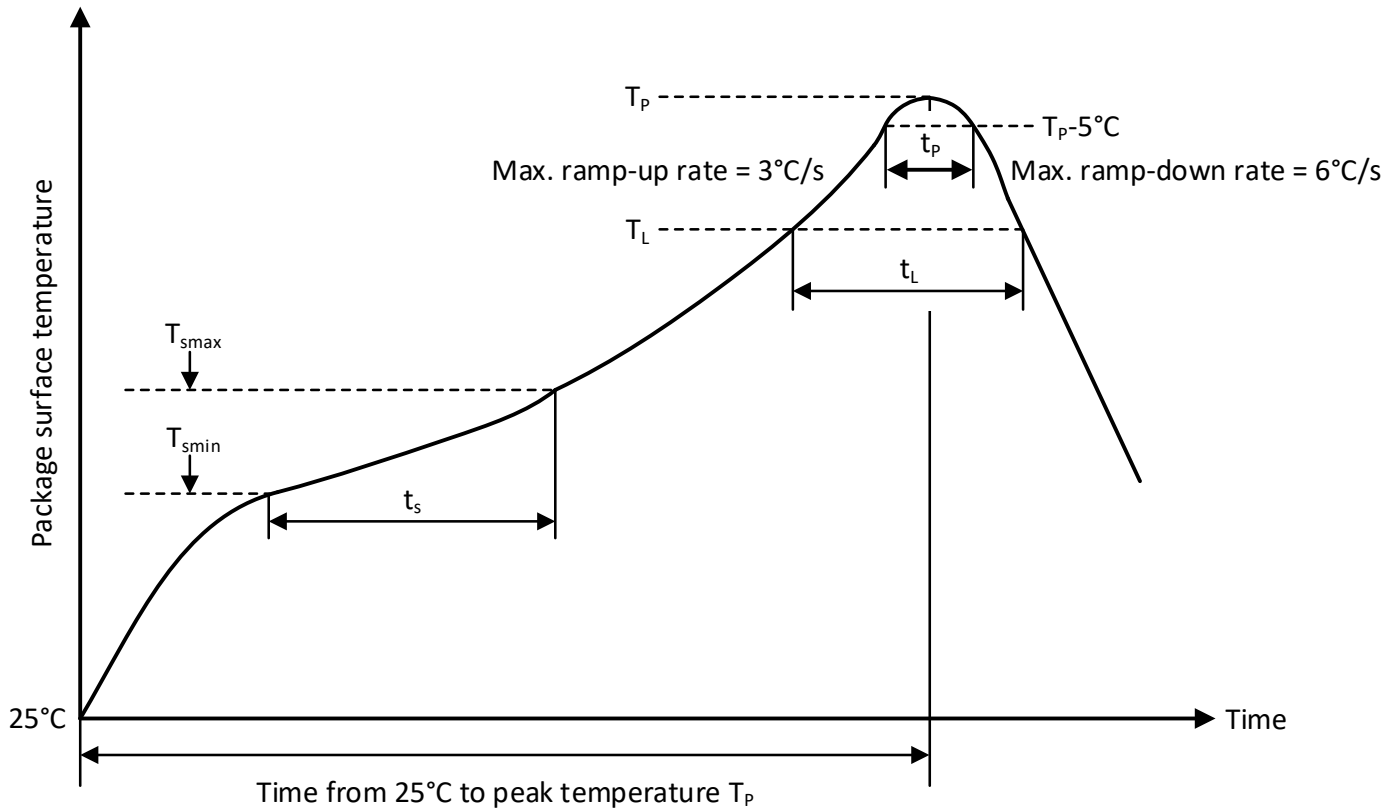


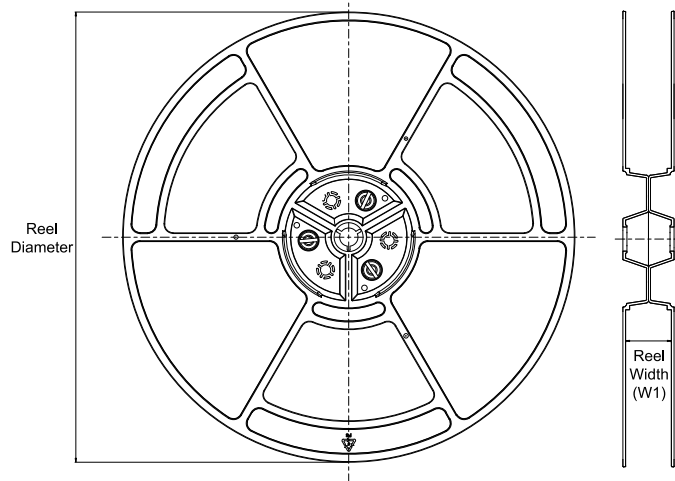
Figure. 12-1 Soldering Temperature (reflow) Profile

Table 12-1 Soldering Temperature Parameters

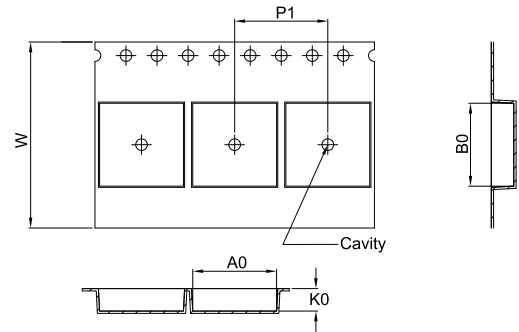
Profile Feature	Pb-Free Soldering
Ramp-up rate ($T_L = 217^\circ\text{C}$ to peak T_p)	3°C/s max
Time t_s of preheat temp ($T_{smin} = 150^\circ\text{C}$ to $T_{smax} = 200^\circ\text{C}$)	60~120 seconds
Time t_L to be maintained above 217°C	60~150 seconds
Peak temperature T_p	260°C
Time t_p within 5°C of actual peak temp	30 seconds max
Ramp-down rate (peak T_p to $T_L = 217^\circ\text{C}$)	6°C/s max
Time from 25°C to peak temperature T_p	8 minutes max

13. Tape and Reel Information

REEL DIMENSIONS

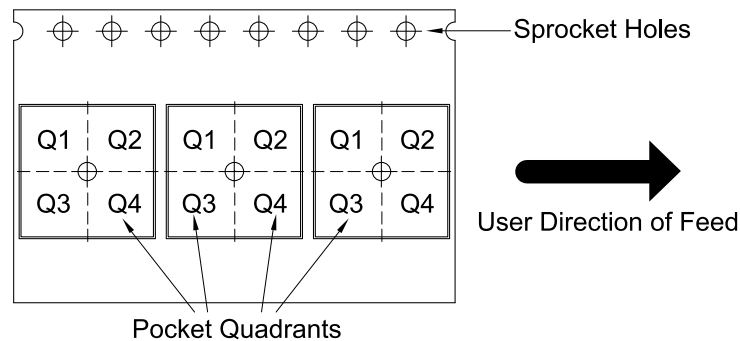


TAPE DIMENSIONS



A0	Dimension designed to accommodate the component width
B0	Dimension designed to accommodate the component length
K0	Dimension designed to accommodate the component thickness
W	Overall width of the carrier tape
P1	Pitch between successive cavity centers

QUADRANT ASSIGNMENTS FOR PIN 1 ORIENTATION IN TAPE



*All dimensions are nominal

Device	Package Type	Package Drawing	Pins	SPQ	Reel Diameter (mm)	Reel Width W1 (mm)	A0 (mm)	B0 (mm)	K0 (mm)	P1 (mm)	W (mm)	Pin1 Quadrant
CA-IS3720LS	SOIC	S	8	2500	330	12.4	6.40	5.40	2.10	8.00	12.00	Q1
CA-IS3720LG	SOIC	G	8	1000	330	16.4	11.95	6.15	3.20	16.00	16.00	Q1
CA-IS3720LW	SOIC	W	16	1000	330	16.4	10.90	10.70	3.20	12.00	16.00	Q1
CA-IS3720HS	SOIC	S	8	2500	330	12.4	6.40	5.40	2.10	8.00	12.00	Q1
CA-IS3720HG	SOIC	G	8	1000	330	16.4	11.95	6.15	3.20	16.00	16.00	Q1
CA-IS3720HW	SOIC	W	16	1000	330	16.4	10.90	10.70	3.20	12.00	16.00	Q1
CA-IS3721LS	SOIC	S	8	2500	330	12.4	6.40	5.40	2.10	8.00	12.00	Q1
CA-IS3721LG	SOIC	G	8	1000	330	16.4	11.95	6.15	3.20	16.00	16.00	Q1
CA-IS3721LW	SOIC	W	16	1000	330	16.4	10.90	10.70	3.20	12.00	16.00	Q1
CA-IS3721HS	SOIC	S	8	2500	330	12.4	6.40	5.40	2.10	8.00	12.00	Q1
CA-IS3721HG	SOIC	G	8	1000	330	16.4	11.95	6.15	3.20	16.00	16.00	Q1
CA-IS3721HW	SOIC	W	16	1000	330	16.4	10.90	10.70	3.20	12.00	16.00	Q1
CA-IS3722LS	SOIC	S	8	2500	330	12.4	6.40	5.40	2.10	8.00	12.00	Q1
CA-IS3722LG	SOIC	G	8	1000	330	16.4	11.95	6.15	3.20	16.00	16.00	Q1
CA-IS3722LW	SOIC	W	16	1000	330	16.4	10.90	10.70	3.20	12.00	16.00	Q1
CA-IS3722HS	SOIC	S	8	2500	330	12.4	6.40	5.40	2.10	8.00	12.00	Q1
CA-IS3722HG	SOIC	G	8	1000	330	16.4	11.95	6.15	3.20	16.00	16.00	Q1
CA-IS3722HW	SOIC	W	16	1000	330	16.4	10.90	10.70	3.20	12.00	16.00	Q1

14. Important Statement

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