
PRODUCT ADVISORY

Data Sheet Specification Change for Intersil Product ISL43231*

**Refer to:
PA10108**

Date: October 29, 2010

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To: Our Valued Intersil Customers

Subject: **Data Sheet Specification Change for Intersil Product ISL43231***

This advisory is to inform you that Intersil has updated the data sheet specification for the listed ISL43231* products. The changes align the electrical specification tables with the historical test methodology and consist of the following:

- i) The NO or NC OFF Leakage Current, COM OFF Leakage Current, and COM ON Leakage Current parameters were updated to remove the 25°C minimum and maximum limits from the -5V, 12V, 5V and 3.3V Supply tables.
- ii) The Enable Turn-ON Time, Enable Turn-OFF Time, and Address Transition Time parameters were updated to remove the 25°C and FULL temperature maximum limits from the -5V, 12V, 5V and 3.3V Supply tables.
- iii) The Break-Before-Make Time parameter was updated to remove the FULL temperature minimum limits from the -5V, 12V, 5V and 3.3V Supply tables.
- iv) The Latch Setup Time, Latch Hold Time, and Latch Pulse Width parameters were updated to remove the 25°C and FULL temperature minimum limits from the -5V, 12V, 5V and 3.3V Supply tables.
- v) The Charge Injection and All Hostile Crosstalk parameters were updated to remove the 25°C maximum limits from the 5V, 12V, 5V and 3.3V Supply tables.
- vi) The ON Resistance, RON Matching Between Channels, and RON Flatness parameters were updated to remove the 25°C and FULL temperature maximum limits from the 3.3V Supply table.

Modifications to the data sheet specification are complete. The updated data sheet is available on the Intersil web site at <http://www.intersil.com/data/fn/fn6054.pdf>.

Products affected: **ISL43231IRZ ISL43231IRZ-T**

There will be no change in external marking of the packaged parts. Parts affected by this change are identifiable via Intersil's internal traceability system.

Intersil will take all necessary actions to conform to customer requirements and to ensure the continued high quality and reliability of Intersil products being supplied. Customers may expect to continue receiving product processed to the same established conditions and systems used for screening of material supplied today.

If you have concerns with this change notice, Intersil must hear from you promptly. Please contact the nearest Intersil Sales Office or call the Intersil Corporate line at 1-888-468-3774, in the United States, or 1-321-724-7143 outside of the United States.

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PA10108

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PA10108 – Data Sheet Electrical Specification Changes

Parameter	Symbol	Temp	Current Limit			New Limit			Units
			Min	Typ	Max	Min	Typ	Max	
Electrical Specifications - 5V Supply									
NO or NC OFF Leakage Current	INO(OFF) or INC(OFF)	25°C	-0.1	0.002	0.1	-	0.002	-	nA
COM OFF Leakage Current	ICOM(OFF)	25°C	-0.1	0.002	0.1	-	0.002	-	
COM ON Leakage Current	ICOM(ON)	25°C	-0.1	0.002	0.1	-	0.002	-	
Enable Turn-ON Time	tON	25°C	-	35	50	-	35	-	nS
		Full	-	-	60	-	45	-	
Enable Turn-OFF Time	tOFF	25°C	-	22	35	-	22	-	
		Full	-	-	40	-	27	-	
Address Transition Time	tTRANS	25°C	-	43	60	-	43	-	
		Full	-	-	70	-	53	-	
Break-Before-Make Time	tBBM	Full	2	7	-	-	7	-	
Latch Setup Time	tS	25°C	25	-	-	-	25	-	
		Full	35	-	-	-	35	-	
Latch Hold Time	tH	25°C	0	-	-	-	0	-	
		Full	0	-	-	-	0	-	
Latch Pulse Width	tWPW	25°C	15	-	-	-	15	-	
		Full	25	-	-	-	25	-	
Charge Injection	Q	25°C	-	0.3	1	-	0.3	-	pC
All Hostile Crosstalk		25°C	-	-105	1.5	-	-105	-	dB
Electrical Specifications 12V Supply									
NO or NC OFF Leakage Current	INO(OFF) or INC(OFF)	25°C	-0.1	0.002	0.1	-	0.002	-	nA
COM OFF Leakage Current	ICOM(OFF)	25°C	-0.1	0.002	0.1	-	0.002	-	
COM ON Leakage Current	ICOM(ON)	25°C	-0.1	0.002	0.1	-	0.002	-	
Enable Turn-ON Time	tON	25°C	-	24	40	-	24	-	nS
		Full	-	-	45	-	29	-	
Enable Turn-OFF Time	tOFF	25°C	-	15	30	-	15	-	
		Full	-	-	35	-	20	-	
Address Transition Time	tTRANS	25°C	-	27	50	-	27	-	
		Full	-	-	55	-	32	-	
Break-Before-Make Time	tBBM	Full	2	5	-	-	5	-	
Latch Setup Time	tS	25°C	25	-	-	-	25	-	
		Full	35	-	-	-	35	-	
Latch Hold Time	tH	25°C	0	-	-	-	0	-	
		Full	0	-	-	-	0	-	
Latch Pulse Width	tWPW	25°C	15	-	-	-	15	-	
		Full	25	-	-	-	25	-	
Charge Injection	Q	25°C	-	2.7	5	-	2.7	-	pC
All Hostile Crosstalk		25°C	-	-105	1.5	-	-105	-	dB

PA10108 – Data Sheet Electrical Specification Changes -cont.

Parameter	Symbol	Temp	Current Limit			New Limit			Units	
			Min	Typ	Max	Min	Typ	Max		
Electrical Specifications 5V Supply										
NO or NC OFF Leakage Current	INO(OFF) or INC(OFF)	25°C	-0.1	0.002	0.1	-	0.002	-	nA	
COM OFF Leakage Current	ICOM(OFF)	25°C	-0.1	0.002	0.1	-	0.002	-		
COM ON Leakage Current	ICOM(ON)	25°C	-0.1	0.002	0.1	-	0.002	-		
Enable Turn-ON Time	tON	25°C	-	43	60	-	43	-	nS	
		Full	-	-	70	-	53	-		
Enable Turn-OFF Time	tOFF	25°C	-	20	35	-	20	-		
		Full	-	-	40	-	25	-		
Address Transition Time	tTRANS	25°C	-	51	70	-	51	-		
		Full	-	-	85	-	56	-		
Break-Before-Make Time	tBBM	Full	2	9	-	-	9	-		
Latch Setup Time	tS	25°C	25	-	-	-	25	-		
		Full	35	-	-	-	35	-		
Latch Hold Time	tH	25°C	0	-	-	-	0	-		
		Full	0	-	-	-	0	-		
Latch Pulse Width	tWPW	25°C	15	-	-	-	15	-		
		Full	25	-	-	-	25	-		
Charge Injection	Q	25°C	-	0.6	1.5	-	0.6	-	pC	
All Hostile Crosstalk		25°C	-	-105	1.5	-	-105	-	dB	
Electrical Specifications 3.3V Supply										
ON-Resistance	RON	25°C	-	135	155	-	135	-	Ω	
		Full	-	-	200	-	155	-		
RON Matching Between Channels	ΔRON	25°C	-	3.4	8	-	3.4	-		
		Full	-	-	10	-	5.4	-		
RON Flatness	RFLAT(ON)	25°C	-	34	40	-	34	-		
		Full	-	-	50	-	44	-		
NO or NC OFF Leakage Current	INO(OFF) or INC(OFF)	25°C	-0.1	0.002	0.1	-	0.002	-		nA
COM OFF Leakage Current	ICOM(OFF)	25°C	-0.1	0.002	0.1	-	0.002	-		
COM ON Leakage Current	ICOM(ON)	25°C	-0.1	0.002	0.1	-	0.002	-		
Enable Turn-ON Time	tON	25°C	-	82	100	-	82	-		nS
		Full	-	-	120	-	102	-		
Enable Turn-OFF Time	tOFF	25°C	-	37	50	-	37	-		
		Full	-	-	60	-	47	-		
Address Transition Time	tTRANS	25°C	-	96	120	-	96	-		
		Full	-	-	145	-	121	-		
Break-Before-Make Time	tBBM	Full	3	13	-	-	13	-		
Latch Setup Time	tS	25°C	50	-	-	-	50	-		
		Full	60	-	-	-	60	-		
Latch Hold Time	tH	25°C	0	-	-	-	0	-		
		Full	0	-	-	-	0	-		
Latch Pulse Width	tWPW	25°C	30	-	-	-	30	-		
		Full	40	-	-	-	40	-		
Charge Injection	Q	25°C	-	0.3	1	-	0.3	-	pC	
All Hostile Crosstalk		25°C	-	-105	1.5	-	-105	-	dB	