
PRODUCT CHANGE NOTICE

**Data Sheet Specification
Change for Intersil Product
ISL21090BFB812Z-TK**

**Refer to:
PCN13021**

Date: March 1, 2013

March 1, 2013

To: Our Valued Intersil Customer

Subject: **Data Sheet Specification Change for Intersil Product ISL21090BFB812Z-TK**

This notice is to inform you that Intersil has changed the data sheet specification for the ISL21090BFB812Z-TK product. The changes remove the *ISC- Short Circuit Current* and *ΔVOUT/ΔIOUT Load Regulation - Sinking* parameters in the Electrical Specifications table for the 1.25V option and are necessary to maintain product manufacturability in support of customer delivery requirements. Details regarding the changes are contained on the following page. The updated data sheet is available on the Intersil web site at <http://www.intersil.com/content/dam/Intersil/documents/fn69/fn6993.pdf>.

There have been no changes made to the die/silicon. 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 agreed upon customer requirements and to ensure the continued high quality and reliability of Intersil products being supplied. Customers may expect to receive product electrically screened to the revised data sheet beginning *ninety* days from the date of this notification or earlier with approval.

If you have concerns with this 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.

Regards,



Jon Brewster
Intersil Corporation

PCN13021

CC: J. Touvell K. Mouloua M. Carmody P. Lee

PA13021 Data Sheet Updates

From:

Electrical Specifications $V_{IN} = 5V$ (1.25V option), $I_{OUT} = 0$, $C_L = 0.1\mu F$ and $C_C = 0.01\mu F$, unless otherwise specified. **Boldface limits apply over the operating temperature range, -40 °C to +125 °C.**

| PARAMETER | DESCRIPTION | CONDITIONS | MIN (Note 7) | TYP | MAX (Note 7) | UNIT |
|---------------------------------|---|---|--------------|------------|--------------|-----------------|
| V_{OUT} | Output Voltage | $V_{IN} = 5V$, | | 1.25 | | V |
| V_{OA} | V_{OUT} Accuracy @ $T_A = +25^\circ C$ (Note 6) | $V_{OUT} = 1.25V$ | -0.03 | | +0.03 | % |
| TC V_{OUT} | Output Voltage Temperature Coefficient (Note 8) | ISL21090 B grade | | | 7 | ppm/°C |
| V_{IN} | Input Voltage Range | $V_{OUT} = 1.25V$ | 3.7 | | 36 | V |
| I_{IN} | Supply Current | | | 0.750 | 1.28 | mA |
| $\Delta V_{OUT}/\Delta V_{IN}$ | Line Regulation | $V_{IN} = 3.7V$ to $36V$, $V_{OUT} = 1.25V$ | | 6 | 17 | ppm/V |
| $\Delta V_{OUT}/\Delta I_{OUT}$ | Load Regulation | Sourcing: $0mA \leq I_{OUT} \leq 20mA$ | | 2.5 | 17 | ppm/mA |
| | | Sinking: $-10mA \leq I_{OUT} \leq 0mA$ | | 2.5 | 17 | ppm/mA |
| V_D | Dropout Voltage (Note 9) | $V_{OUT} = 1.25V @ 10mA$ | | 1.7 | 2.15 | V |
| I_{SC+} | Short Circuit Current | $T_A = +25^\circ C$, V_{OUT} tied to GND | | 53 | | mA |
| I_{SC-} | Short Circuit Current | $T_A = +25^\circ C$, V_{OUT} tied to V_{IN} | | -23 | | mA |
| t_R | Turn-on Settling Time | 90% of final value, $C_L = 1.0\mu F$, $C_C = open$ | | 150 | | μs |
| | Ripple Rejection | $f = 120Hz$ | | 90 | | dB |
| e_{np-p} | Voltage Noise | $0.1Hz \leq f \leq 10Hz$, $V_{OUT} = 1.25V$ | | 1.0 | | μV_{P-P} |
| V_n | Broadband Voltage Noise | $10Hz \leq f \leq 1kHz$, $V_{OUT} = 1.25V$ | | 1.2 | | μV_{RMS} |
| e_n | Noise Voltage Density | $f = 1kHz$, $V_{OUT} = 1.25V$ | | 35.4 | | nV/ \sqrt{Hz} |
| $\Delta V_{OUT}/\Delta t$ | Long Term Stability | $T_A = +25^\circ C$ | | 20 | | ppm |

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| e_n | Noise Voltage Density | $f = 1kHz$, $V_{OUT} = 1.25V$ | | 25 | | nV/ \sqrt{Hz} |
| $\Delta V_{OUT}/\Delta t$ | Long Term Stability | $T_A = +25^\circ C$ | | 20 | | ppm |