

## Product Change Notice (PCN)

**Subject:** Data Sheet Specification Change for Listed Intersil ISL80138\* Products

**Publication Date:** 1/15/2016

**Effective Date:** 4/15/2016

**Revision Description:**

Initial Release

**Description of Change:**

This notice is to inform you that Intersil has changed the electrical specification table for Dropout Voltage @ Iout of 150ma.

Intersil Product Number	Intersil Product Number	Intersil Product Number
ISL80138IVEAJZ	ISL80138IVEAJZ-T7A	ISL80138IVEAJZTR5632
ISL80138IVEAJZ-T	ISL80138IVEAJZTR5194	

**Reason for Change:**

The change aligns the data sheet with the product characteristics and is necessary to maintain product manufacturability in support of customer delivery requirements. Details regarding the change 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/isl8/isl80138.pdf>

**Product Identification:**

There have been no changes to the die/silicon or product itself. There will be no change in the external marking of the packaged parts.

**Qualification status:** Complete

**Sample availability:** 1/15/2016

**Device material declaration:** Available upon request

*Questions or requests pertaining to this change notice, including additional data or samples, must be sent to Intersil within 30 days of the publication date.*

For additional information regarding this notice, please contact your regional change coordinator (below)			
Americas: <a href="mailto:PCN-US@INTERSIL.COM">PCN-US@INTERSIL.COM</a>	Europe: <a href="mailto:PCN-EU@INTERSIL.COM">PCN-EU@INTERSIL.COM</a>	Japan: <a href="mailto:PCN-JP@INTERSIL.COM">PCN-JP@INTERSIL.COM</a>	Asia Pac: <a href="mailto:PCN-APAC@INTERSIL.COM">PCN-APAC@INTERSIL.COM</a>

From:

**Electrical Specifications** Recommended Operating Conditions, unless otherwise noted.  $V_{IN} = 14V$ ,  $I_{OUT} = 1mA$ ,  $C_{IN} = 0.1\mu F$ ,  $C_{OUT} = 10\mu F$ ,  $T_A = T_J = -40^\circ C$  to  $+125^\circ C$ , unless otherwise noted. Typical specifications are at  $T_A = +25^\circ C$ . **Boldface limits apply over the operating temperature range,  $-40^\circ C$  to  $+125^\circ C$ .**

PARAMETER	SYMBOL	TEST CONDITIONS	MIN (Note 8)	TYP	MAX (Note 8)	UNIT
Input Voltage Range	$V_{IN}$		<b>6</b>		<b>40</b>	V
Guaranteed Output Current	$I_{OUT}$	$V_{IN} = V_{OUT} + V_{DO}$	<b>150</b>			mA
ADJ Reference Voltage	$V_{OUT}$	EN = High, $V_{IN} = 14V$ , $I_{OUT} = 0.1mA$ to $150mA$	<b>1.211</b>	1.223	<b>1.235</b>	V
Line Regulation	$\Delta V_{OUT}/\Delta V_{IN}$	$3V \leq V_{IN} \leq 40V$ , $I_{OUT} = 1mA$		0.04	<b>0.15</b>	%
Load Regulation	$\Delta V_{OUT}/\Delta I_{OUT}$	$V_{IN} = V_{OUT} + V_{DO}$ , $I_{OUT} = 100\mu A$ to $150mA$		0.3	<b>0.6</b>	%
Dropout Voltage (Note 6)	$\Delta V_{DO}$	$I_{OUT} = 1mA$ , $V_{OUT} = 3.3V$		7	<b>33</b>	mV
		$I_{OUT} = 150mA$ , $V_{OUT} = 3.3V$		<b>380</b>	<b>525</b>	mV
		$I_{OUT} = 1mA$ , $V_{OUT} = 5V$		7	<b>33</b>	mV
		$I_{OUT} = 150mA$ , $V_{OUT} = 5V$		<b>295</b>	<b>460</b>	mV

To:

**Electrical Specifications** Recommended Operating Conditions, unless otherwise noted.  $V_{IN} = 14V$ ,  $I_{OUT} = 1mA$ ,  $T_A = T_J = -40^\circ C$  to  $+125^\circ C$ , unless otherwise noted. Typical specifications are at  $T_A = +25^\circ C$ . **Boldface limits apply across the operating temperature range,  $-40^\circ C$  to  $+125^\circ C$ .**

PARAMETER	SYMBOL	TEST CONDITIONS	MIN (Note 8)	TYP	MAX (Note 8)	UNITS
Input Voltage Range	$V_{IN}$		<b>6</b>		<b>40</b>	V
Guaranteed Output Current	$I_{OUT}$	$V_{IN} = V_{OUT} + V_{DO}$	<b>150</b>			mA
ADJ Reference Voltage	$V_{OUT}$	EN = High, $V_{IN} = 14V$ , $I_{OUT} = 0.1mA$ to $150mA$	<b>1.211</b>	1.223	<b>1.235</b>	V
Line Regulation	$(V_{OUT \text{ low line}} - V_{OUT \text{ high line}})/V_{OUT \text{ low line}}$	$6V < V_{IN} < 40V$ , $I_{OUT} = 1mA$		0.04	<b>0.15</b>	%
Load Regulation	$(V_{OUT \text{ no load}} - V_{OUT \text{ high load}})/V_{OUT \text{ no load}}$	$V_{IN} = 14V$ , $I_{OUT} = 100\mu A$ to $150mA$		0.3	<b>0.6</b>	%
Dropout Voltage (Note 6)	$\Delta V_{DO}$	$I_{OUT} = 1mA$ , $V_{OUT} = 2.5V$		7	<b>33</b>	mV
		$I_{OUT} = 150mA$ , $V_{OUT} = 2.5V$		<b>380</b>	<b>571</b>	mV
		$I_{OUT} = 1mA$ , $V_{OUT} = 5V$		7	<b>33</b>	mV
		$I_{OUT} = 150mA$ , $V_{OUT} = 5V$		<b>295</b>	<b>507</b>	mV