

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: PCN-US@INTERSIL.COM	Europe: PCN-EU@INTERSIL.COM	Japan: PCN-JP@INTERSIL.COM	Asia Pac: PCN-APAC@INTERSIL.COM

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}		6		40	V
Guaranteed Output Current	I_{OUT}	$V_{IN} = V_{OUT} + V_{DO}$	150			mA
ADJ Reference Voltage	V_{OUT}	EN = High, $V_{IN} = 14V$, $I_{OUT} = 0.1mA$ to $150mA$	1.211	1.223	1.235	V
Line Regulation	$\Delta V_{OUT}/\Delta V_{IN}$	$3V \leq V_{IN} \leq 40V$, $I_{OUT} = 1mA$		0.04	0.15	%
Load Regulation	$\Delta V_{OUT}/\Delta I_{OUT}$	$V_{IN} = V_{OUT} + V_{DO}$, $I_{OUT} = 100\mu A$ to $150mA$		0.3	0.6	%
Dropout Voltage (Note 6)	ΔV_{DO}	$I_{OUT} = 1mA$, $V_{OUT} = 3.3V$		7	33	mV
		$I_{OUT} = 150mA$, $V_{OUT} = 3.3V$		380	525	mV
		$I_{OUT} = 1mA$, $V_{OUT} = 5V$		7	33	mV
		$I_{OUT} = 150mA$, $V_{OUT} = 5V$		295	460	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}		6		40	V
Guaranteed Output Current	I_{OUT}	$V_{IN} = V_{OUT} + V_{DO}$	150			mA
ADJ Reference Voltage	V_{OUT}	EN = High, $V_{IN} = 14V$, $I_{OUT} = 0.1mA$ to $150mA$	1.211	1.223	1.235	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	0.15	%
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	0.6	%
Dropout Voltage (Note 6)	ΔV_{DO}	$I_{OUT} = 1mA$, $V_{OUT} = 2.5V$		7	33	mV
		$I_{OUT} = 150mA$, $V_{OUT} = 2.5V$		380	571	mV
		$I_{OUT} = 1mA$, $V_{OUT} = 5V$		7	33	mV
		$I_{OUT} = 150mA$, $V_{OUT} = 5V$		295	507	mV