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**FINAL PRODUCT/PROCESS CHANGE NOTIFICATION # 20521**

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**Issue Date:** 01-Jul-2014

**TITLE:** Qualification of ASE Kunshan, Kunshan, Jiangsu, China for Assembly of PDIP-7LD

**PROPOSED FIRST SHIP DATE:** 01-Oct-2014

**AFFECTED CHANGE CATEGORY(S):** Subcontractor Assembly Location

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact your local ON Semiconductor Sales Office or <[J.Flynn@onsemi.com](mailto:J.Flynn@onsemi.com)>

**SAMPLES:** Contact your local ON Semiconductor Sales Office

**ADDITIONAL RELIABILITY DATA:** Available

Contact your local ON Semiconductor Sales Office or <[ken.fergus@onsemi.com](mailto:ken.fergus@onsemi.com)>

**NOTIFICATION TYPE:**

Final Product/Process Change Notification (FPCN)

Final change notification sent to customers. FPCNs are issued at least 90 days prior to implementation of the change.

ON Semiconductor will consider this change approved unless specific conditions of acceptance are provided in writing within 30 days of receipt of this notice. To do so, contact <[quality@onsemi.com](mailto:quality@onsemi.com)>.

**DESCRIPTION AND PURPOSE:**

This is a Final Product Change Notice to alert customers of the qualification of ASE Kunshan, Kunshan, China, (ISO/TS certified) to assemble PDIP 7 lead packages. ASE Kunshan will provide additional capacity to supplement ON Semiconductor's other PDIP assembly facilities. ASE Kunshan is currently qualified for assembly to run PDIP 8, SOIC 8, and SOIC 14 lead packages within ON Semiconductor.



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**RELIABILITY DATA SUMMARY:**

Reliability Test Results: NCP1271 / NCP1015 / NCP1027

**NCP1271 Reliability Evaluation Results:**

#	Test	Name	Test Conditions	End Point	Test Result	(rej/ ss)	(rej/ ss)	(rej/ ss)	(rej/ ss)
					Read Point	Lot A ASE KS	Lot B ASE KS	Lot C ASE KS	Lot D control
1	Prep	Sample prep and initial part testing	various	---	Initial Electrical	done	done	done	done
7	TC	Temp Cycle	-65/+150 C	c = 0, Room	500 cyc	0/80	0/80	0/80	0/80
					1000 cyc	0/80	0/80	0/80	0/80
7A	TC-DPA	Temp Cycle DPA for BOAC	-65/+150 C	c = 0, Room	Post 500 cyc	0/5	0/5	0/5	0/5
8	UFAST	UFAST	TA= +130C, RH = 85%, PSIG= 18.8, no bias	c = 0, Room	96 hrs	0/80	0/80	0/80	0/80
9	AC	AC	TA= +121C, RH = 100%, PSIG= 15	c = 0, Room	96 hrs	0/80	0/80	0/80	0/80

**NCP1015 Reliability Evaluation Results:**

#	Test	Name	Test Conditions	End Point	Test Result	(rej/ ss)	(rej/ ss)	(rej/ ss)	(rej/ ss)
					Read Point	Lot A ASE KS	Lot B ASE KS	Lot C ASE KS	Lot D control
1	Prep	Sample prep and initial part testing	various	---	Initial Electrical	done	done	done	done
7	TC	Temp Cycle	-65/+150 C	c = 0, Room	500 cyc	0/80	0/80	0/80	0/40
					1000 cyc	0/80	0/80	0/80	0/40
8	UFAST	UFAST	TA= +130C, RH = 85%, PSIG= 18.8, no bias	c = 0, Room	96 hrs	0/80	0/80	0/80	0/40
9	HTSL	HTSL	TA= +150C,	c = 0, Room	504 hrs	0/80	0/80	0/80	0/40
					1008 hrs	0/80	0/80	0/80	0/40



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**NCP1027 Reliability Evaluation Results:**

#	Test	Name	Test Conditions	End Point	Test Result	(rej/ ss)	(rej/ ss)	(rej/ ss)	(rej/ ss)
					Read Point	Lot A ASE KS	Lot B ASE KS	Lot C ASE KS	Lot D control
1	Prep	Sample prep and initial part testing	various	---	Initial Electrical	done	done	done	done
4	HTOL	High Temp Operating Life	TA = 125C, 50V bias	c = 0, Room	504 hrs	0/80	0/80	0/80	0/60
					1008 hrs	0/80	0/80	0/80	0/80
7	TC	Temp Cycle	-65/+150 C	c = 0, Room	500 cyc	0/80	0/80	0/80	0/80
					1000 cyc	0/80	0/80	0/80	0/80
8	UHAST	UHAST	TA= +130C, RH = 85%, PSIG= 18.8, no bias	c = 0, Room	96 hrs	0/80	0/80	0/80	0/80
9	AC	AC	TA= +121C, RH = 100%, PSIG= 15	c = 0, Room	96 hrs	0/80	0/80	0/80	0/80

**ELECTRICAL CHARACTERISTIC SUMMARY:**

The electrical specifications will remain identical, and is available upon request.

**CHANGED PART IDENTIFICATION:**

Devices assembled by ASE Kunshan will include the character 'AK' as the identifier in the trace code. Upon expiration of the PCN devices may be sourced from either ASE Kunshan, or previously qualified assembly locations. Manufacturing traceability will be maintained to allow identification of the assembly source.



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**List of affected General Parts:**

NCP1010AP065G	NCP1075P100G
NCP1010AP100G	NCP1075P130G
NCP1010AP130G	NCP1216AP100G
NCP1011AP065G	NCP1216AP133G
NCP1011AP100G	NCP1216AP65G
NCP1011AP130G	NCP1216P100G
NCP1012AP065G	NCP1216P133G
NCP1012AP100G	NCP1216P65G
NCP1012AP133G	NCP1217AP100G
NCP1013AP065G	NCP1217AP133G
NCP1013AP100G	NCP1217AP65G
NCP1013AP133G	NCP1217P100G
NCP1014AP065G	NCP1217P133G
NCP1014AP100G	NCP1217P65G
NCP1015AP065G	NCP1230P100G
NCP1015AP100G	NCP1230P133G
NCP1027P065G	NCP1230P65G
NCP1027P100G	NCP1271P100G
NCP1028P065G	NCP1271P65G
NCP1028P100G	NCP1337PG
NCP1072P065G	NCP1377BPG
NCP1072P100G	NCP1377PG
NCP1075P065G	