



Initial Product/Process Change Notification

Document #: IPCN24494X

Issue Date: 28 Feb 2022

Title of Change:	Addition of onsemi Tarlac, Philippines (Tarlac) for assembly and test of SOIC8 products
Proposed First Ship date:	30 Nov 2022 or earlier if approved by customer
Contact Information:	Contact your local onsemi Sales Office or Samuel.Sarmiento@onsemi.com
PCN Samples Contact:	Contact your local onsemi Sales Office. Sample requests are to be submitted no later than 30 days from the date of first notification, Initial PCN or Final PCN, for this change. Samples delivery timing will be subject to request date, sample quantity and special customer packing/label requirements.
Type of Notification:	This is an Initial Product/Process Change Notification (IPCN) sent to customers. An IPCN is an advance notification about an upcoming change and contains general information regarding the change details and devices affected. It also contains the preliminary reliability qualification plan. The completed qualification and characterization data will be included in the Final Product/Process Change Notification (FPCN). This IPCN notification will be followed by a Final Product/Process Change Notification (FPCN) at least 90 days prior to implementation of the change. In case of questions, contact < PCN.Support@onsemi.com >
Marking of Parts/ Traceability of Change:	Affected parts can be identified by the assembly site code in the traceability code
Change Category:	Test Change, Assembly Change
Change Sub-Category(s):	Material Change, Manufacturing Site Addition

Sites Affected:

onsemi Sites	External Foundry/Subcon Sites
onsemi Tarlac, Philippines	None

Description and Purpose:

onsemi is announcing the intent to qualify the onsemi Tarlac, Philippines location for additional assembly and test for SOIC08 products. Upon completion of this change the affected products may be manufactured in Tarlac, or any of the previously qualified assembly and test locations. There are no changes to any bill-of-material (BOM) items in the currently qualified locations. The planned BOM changes for qualification in onsemi Tarlac, Philippines are shown in the table below:

Assembly & Test Site	Before Change Description				After Change Description	
	OSPI Carmona	STARS	UTAC	ASE	OSPI-Carmona, STARS, UTAC, and ASE	OSPI-Tarlac
LeadFrame	Cu based leadframe CuAg or NiPdAu	Cu based leadframe CuAg or NiPdAu	Cu based leadframe NiPdAu	Cu based leadframe CuAg or NiPdAu	NO CHANGE	Cu based leadframe CuAg
Die Attach	CRM-1076WB	ABLESTIK 2200D	ABLESTICK 8200T	EN4900GC	NO CHANGE	CRM 1084P
Bond Wire	Au or Bare Cu or CuPd	Au or Bare Cu or CuPd	Au or Bare Cu or CuPd	Au or Bare Cu or CuPd	NO CHANGE	CuPd
Molding Compound	Sumitomo - G600	Sumitomo - G600	Sumitomo - G600	CEL9240HF	NO CHANGE	Sumitomo - G700LS
Lead Finish	Sn plating or NiPdAu	Sn plating or NiPdAu	Sn plating or NiPdAu	Sn plating or NiPdAu	NO CHANGE	Sn Plating
Test Method	Singulated testing				NO CHANGE	Strip testing



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Reliability Data Summary:

QV DEVICE NAME: NCV2333DR2G

PACKAGE: SOIC8 NB (ONC25)

Test	Specification	Condition	Interval
HTOL	TA=125C JA108	TA=150C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hours
ELFR	AECQ100-008	TA=150C, bias at 1.2X Nominal (not to exceed Max rated)	48 hours
HTSL	JESD22-A103	Ta = 150C	2016 hours
PC	J STD020, JESD22-A113	IR reflow at 260C	-
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	192 hours
TC+PC	JESD22-A104	Temp = -65°C to +150°C; for 1000 cycles (or equivalent)	1000cycle
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hours

QV DEVICE NAME: NCV2951ACDR2G

PACKAGE: SOIC8 NB (EPI)

Test	Specification	Condition	Interval
HTOL	TA=125C JA108	TA=150C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hours
ELFR	AECQ100-008	TA=150C, bias at 1.2X Nominal (not to exceed Max rated)	48 hours
HTSL	JESD22-A103	Ta = 150C	2016 hours
PC	J STD020, JESD22-A113	IR reflow at 260C	-
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	192 hours
TC+PC	JESD22-A104	Temp = -65°C to +150°C; for 1000 cycles (or equivalent)	1000cycle
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hours

QV DEVICE NAME: CAV24C512WE-GT3

PACKAGE: SOIC8 NB (ONC18)

Test	Specification	Condition	Interval
HTOL	TA=125C JA108	TA=150C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hours
ELFR	AECQ100-008	TA=125C, bias at 1.2X Nominal (not to exceed Max rated)	48 hours
HTSL	JESD22-A103	Ta = 150C	2016 hours
PC	J STD020, JESD22-A113	IR reflow at 260C	-
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	192 hours
TC+PC	JESD22-A104	Temp = -65°C to +150°C; for 1000 cycles (or equivalent)	1000cycle
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hours



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QV DEVICE NAME: CAV25640VE-GT3

PACKAGE: SOIC8 NB (ONC35)

Test	Specification	Condition	Interval
HTOL	TA=125C JA108	TA=150C, bias at 1.2X Nominal (not to exceed Max rated)	1008 hours
ELFR	AECQ100-008	TA=125C, bias at 1.2X Nominal (not to exceed Max rated)	48 hours
HTSL	JESD22-A103	Ta = 150C	2016 hours
PC	J STD020, JESD22-A113	IR reflow at 260C	-
HAST+PC	JESD22-A110	Temp = 130C, 85% RH, ~ 18.8 psig, bias = 100% of rated V or 100V max	192 hours
TC+PC	JESD22-A104	Temp = -65°C to +150°C; for 1000 cycles (or equivalent)	1000cycle
UHAST+PC	JESD22-A118	Temp = 130C, RH=85%, ~ 18.8 psig	96 hours

List of Affected Parts:

Note: Only the standard (off the shelf) part numbers are listed in the parts list. Any custom parts affected by this PCN are shown in the customer specific PCN addendum in the PCN email notification, or on the **PCN Customized Portal**.

Part Number	Qualification Vehicle
LM293DR2G	NCV2951ACDR2G
LM258DR2G	NCV2951ACDR2G
MC79L12ABDR2G	NCV2951ACDR2G
MC78L15ABDR2G	NCV2951ACDR2G
LP2951CDR2G	NCV2951ACDR2G
LP2951ACDR2G	NCV2951ACDR2G
LM317LDR2G	NCV2951ACDR2G
LM317LBDR2G	NCV2951ACDR2G
MC78L05ACDR2G	NCV2951ACDR2G
LM2931CDR2G	NCV2951ACDR2G
MC78L05ABDR2G	NCV2951ACDR2G
LM2931AD-5.0R2G	NCV2951ACDR2G
CAT25160VI-GT3	CAV25640VE-GT3
CAT25128VI-GT3	CAV24C512WE-GT3
CAT24C64WI-GT3	CAV25640VE-GT3
CAT24C512WI-GT3	CAV24C512WE-GT3
CAT24C32WI-GT3	CAV25640VE-GT3
CAT24C256WI-GT3	CAV24C512WE-GT3



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CAT24C16WI-GT3	CAV25640VE-GT3
CAT24C128WI-GT3	CAV24C512WE-GT3
CAT24C08WI-GT3	CAV25640VE-GT3
CAT24C04WI-GT3	CAV25640VE-GT3
LM2904VDR2G	NCV2951ACDR2G
LM2904EDR2G	NCV2951ACDR2G
MC78L09ABDR2G	NCV2951ACDR2G
MC78L09ACDR2G	NCV2951ACDR2G
SC79L05ABDR2G	NCV2951ACDR2G
LM2931AD-5.0G	NCV2951ACDR2G
MC33269DR2-5.0G	NCV2951ACDR2G
LM301ADR2G	NCV2951ACDR2G
MC79L15ABDR2G	NCV2951ACDR2G
MC78L08ABDR2G	NCV2951ACDR2G
LP2951ACD-3.0R2G	NCV2951ACDR2G
LM201AVDR2G	NCV2951ACDR2G
LP2951CD-3.0R2G	NCV2951ACDR2G
MC33269DR2-3.3G	NCV2951ACDR2G
MC33269DR2G	NCV2951ACDR2G
LM211DR2G	NCV2951ACDR2G
MC79L12ACDR2G	NCV2951ACDR2G
MC79L15ACDR2G	NCV2951ACDR2G
LM358EDR2G	NCV2951ACDR2G
NE592D8R2G	NCV2951ACDR2G
LM2931D-5.0R2G	NCV2951ACDR2G
MC33275D-5.0R2G	NCV2951ACDR2G
MC79L05ACDR2G	NCV2951ACDR2G
MC78L12ABDR2G	NCV2951ACDR2G
MC78L12ACDR2G	NCV2951ACDR2G
LM2903VDR2G	NCV2951ACDR2G
LM201ADR2G	NCV2951ACDR2G
NCS20072DR2G	NCV2333DR2G
NCS20082DR2G	NCV2333DR2G
NCS20062DR2G	NCV2333DR2G



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NCS20032DR2G	NCV2333DR2G
TLV272DR2G	NCV2333DR2G
CAT24C03WI-GT3	CAV25640VE-GT3
CAT93C86VI-GT3	CAV25640VE-GT3
CAT93C46BVI-GT3	CAV25640VE-GT3
CAT25080VI-GT3	CAV25640VE-GT3
CAT25640VI-GT3	CAV25640VE-GT3
CAT93C66VI-GT3	CAV25640VE-GT3
CAT25320VI-GT3	CAV25640VE-GT3
CAT24C32WI-G	CAV25640VE-GT3
CAT25020VI-GT3	CAV25640VE-GT3
CAT93C46BWI-GT3	CAV25640VE-GT3
CAT25080VI-G	CAV25640VE-GT3
CAT25640VI-G	CAV25640VE-GT3
CAT25040VI-GT3	CAV25640VE-GT3
CAT25010VI-G	CAV25640VE-GT3
CAT93C86BVI-GT3	CAV25640VE-GT3
CAT24C64WI-G	CAV25640VE-GT3
CAT24C08WI-G	CAV25640VE-GT3
CAT25040VI-G	CAV25640VE-GT3
CAT24C04WI-G	CAV25640VE-GT3
CAT25160VI-G	CAV25640VE-GT3
CAT24C16WI-G	CAV25640VE-GT3
CAT25010VI-GT3	CAV25640VE-GT3
CAT93C46RBVI-GT3	CAV25640VE-GT3
CAT24C64BWI-KT3JN	CAV24C512WE-GT3
CAT25256VI-GT3	CAV24C512WE-GT3
CAT25256VI-G	CAV24C512WE-GT3
CAT24C32BWI-KT3JN	CAV24C512WE-GT3
CAT24C256WI-G	CAV24C512WE-GT3
CAT25128VI-G	CAV24C512WE-GT3
CAT24C128WIGT3JN	CAV24C512WE-GT3
CAT24C512WI-G	CAV24C512WE-GT3
CAT24C128WI-G	CAV24C512WE-GT3



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CAT24C512WIGT3JN	CAV24C512WE-GT3
CAT24C16BWI-GT3JN	CAV24C512WE-GT3
LM2903EDR2G	NCV2951ACDR2G
LM393DR2G	NCV2951ACDR2G
LM2904DR2G	NCV2951ACDR2G
LM393EDR2G	NCV2951ACDR2G
LM358DR2G	NCV2951ACDR2G
LM2903DR2G	NCV2951ACDR2G