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Product Change Notification - JAON-26ABPQ300 (Printer Friendly)

Date:	20 Jun 2016
Product	SMSC; Analog (Thermal, Power Management & Safety);
Category:	Supertex
Notification subject:	CCB 1737.08 Intermediate Notice: Qualification of Microchip 8 inch Fabrication site for Micrel products manufactured with the CSI12 Process Technology.
Notification text:	

PCN Status:

Intermediate notification

Microchip Parts Affected:

Please open the attachments found in the attachments field below labeled as PCN_#_Affected_CPN.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Qualification of Microchip 8 inch Fabrication site for Micrel products manufactured with the CSI12 Process Technology. This PCN is to inform you that qualification of the CSI12 process technology has completed and to provide the report for your review. Although we are providing you with the qualification data, products in this process technology will not ship from Microchip's Fab's until after the final PCN has been issued. Please review the FAQ linked [here](#) for additional information about this change.

Pre Change:

Fabricated at Micrel fabrication site (San Jose, CA, USA) using 6 inch wafers.

Post Change:

Fabricated at Microchip Fabrication site using 8 inch wafers.

Impacts to Data Sheet:

None

Reason for Change:

To improve productivity with the closure of the Micrel fab as part of the integration of Micrel and Microchip.

Change Implementation Status:

In Progress

Estimated First Ship Date:

Catalog part numbers fabricated in Microchip Fabs will not ship until the final PCN has been issued. Microchip will issue Final PCNs as catalog part numbers (CPN) are released to production.

NOTE: This FAB transition will vary by catalog part number (CPN) and may take several months/years to complete the transition.

Summary Time Table of notable events to date:

	September 2015	--->	March 2016	April 2016
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WW	36	37	38	39	40		09	10	11	12	13	14	15	16	17
Initial PCN Issue Date	X														
Qual Report Available															X

Markings to Distinguish Revised from Unrevised Devices:

Traceability code and shipping label see [FAQ](#).

Revision History:

September 1, 2015: Issued initial notification as PCN number [CYER-31JLEX869](#).

April 29, 2016: Issued intermediate notification with a different PCN number. Attached the Qualification Report. Revised the estimated first ship date (EFSD) to inform that the EFSD will be revealed in the final PCN.

June 20, 2016: Updated the Qualification Report to add the note on the ESD ratings.

The change described in this PCN does not alter Micrel's or Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachment(s): [PCN_JAON-26ABPQ300_Qual Report.pdf](#)
[PCN_JAON-26ABPQ300_Affected_CPN.pdf](#)
[PCN_JAON-26ABPQ300_Affected_CPN.xls](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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JAON-26ABPQ300 - CCB 1737.08 Intermediate Notice: Qualification of Microchip 8 inch Fabrication site for Micrel products manufactured with the CSI12 Process Technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
KSZ8001L
KSZ8001LI
KSZ8001LI-TR
KSZ8001L-TR
KSZ8001SL
KSZ8001SL-TR
KSZ8721BL
KSZ8721BLI
KSZ8721BLI-TR
KSZ8721BL-TR
KSZ8721CL
KSZ8721CL-TR
KSZ8721SL
KSZ8721SLI
KSZ8721SLI-TR
KSZ8721SL-TR
KSZ8993FL
KSZ8993ML
KSZ8993MLI
SPNZ801026-TR
SPNZ801036-TR
MIC2202YML
MIC2202YML-TR
MIC2202YMM
MIC2202YMM-TR
MIC2203YML-TR
MIC2203YMM
MIC2203YMM-TR
MIC2204YML
MIC2204YML-TR
MIC2204YMM
MIC2204YMM-TR
MIC2210-FMYML-TR
MIC2210-GSYML-TR
MIC2210-MPYML-TR
MIC2210-MWYML-TR
MIC2210-PSYML-TR
MIC2210-SSYML-TR
MIC2211-AAYML-TR
MIC2211-DLYML-TR
MIC2211-FGYML-TR
MIC2211-FMYML-TR
MIC2211-FNYML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
MIC2211-FOYML-TR
MIC2211-FQYML-TR
MIC2211-GJYML-TR
MIC2211-GKYML-TR
MIC2211-GMYML-TR
MIC2211-GOYML-TR
MIC2211-GPYML-TR
MIC2211-GSYML-TR
MIC2211-HPYML-TR
MIC2211-JGYML-TR
MIC2211-JMYML-TR
MIC2211-JPYML-TR
MIC2211-JSYML-TR
MIC2211-JYYML-TR
MIC2211-KGYML-TR
MIC2211-KNYML-TR
MIC2211-KPYML-TR
MIC2211-LGYML-TR
MIC2211-LPYML-TR
MIC2211-MFYML-TR
MIC2211-MGYML-TR
MIC2211-MJYML-TR
MIC2211-MMYML-TR
MIC2211-MPYML-TR
MIC2211-MSYML-TR
MIC2211-MWYML-TR
MIC2211-NNYML-TR
MIC2211-NSYML-TR
MIC2211-OFYML-TR
MIC2211-OOYML-TR
MIC2211-PLYML-TR
MIC2211-PMYML-TR
MIC2211-PNYML-TR
MIC2211-PPYML-TR
MIC2211-PSYML-TR
MIC2211-PWYML-TR
MIC2211-SGYML-TR
MIC2211-SMYML-TR
MIC2211-SSYML-TR
MIC2211-VVYML-TR
MIC2211-WMYML-TR
MIC2211-WOYML-TR
MIC2211-WSYML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
MIC2211-YMYML-TR
MIC2212-DNYML-TR
MIC2212-DOYML-TR
MIC2212-GKYML-TR
MIC2212-GLYML-TR
MIC2212-GMYML-TR
MIC2212-GPYML-TR
MIC2212-GSYML-TR
MIC2212-JSYML-TR
MIC2212-KMYML-TR
MIC2212-KNYML-TR
MIC2212-LMYML-TR
MIC2212-LOYML-TR
MIC2212-LPYML-TR
MIC2212-MKYML-TR
MIC2212-MMYML-TR
MIC2212-MPYML-TR
MIC2212-NNYML-TR
MIC2212-PMYML-TR
MIC2212-PNYML-TR
MIC2212-PPYML-TR
MIC2212-PSYML-TR
MIC2212-SGYML-TR
MIC2212-SJYML-TR
MIC2212-SMYML-TR
MIC2212-WSYML-TR
MIC2213-AAYML-TR
MIC2213-GNYML-TR
MIC2213-GSYML-TR
MIC2213-JSYML-TR
MIC2214-AAYML-T5
MIC2214-AAYML-TR
MIC2214-DIYML-TR
MIC2214-DKYML-TR
MIC2214-DLYML-TR
MIC2214-DNYML-TR
MIC2214-DOYML-TR
MIC2214-FMYML-TR
MIC2214-GKYML-TR
MIC2214-GLYML-TR
MIC2214-GMYML-TR
MIC2214-GOYML-TR
MIC2214-GPYML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
MIC2214-GSYML-TR
MIC2214-JGYML-TR
MIC2214-JMYML-TR
MIC2214-JPYML-TR
MIC2214-JQYML-TR
MIC2214-KKYML-TR
MIC2214-KMYML-TR
MIC2214-KNYML-TR
MIC2214-KPYML-TR
MIC2214-LMYML-TR
MIC2214-LPYML-TR
MIC2214-MMYML-TR
MIC2214-MPYML-TR
MIC2214-NNYML-TR
MIC2214-PMYML-TR
MIC2214-PNYML-TR
MIC2214-PSYML-TR
MIC2214-PWYML-TR
MIC2214-SGYML-TR
MIC2214-SMYML-TR
MIC2214-SWYML-TR
MIC2214-WMYML-TR
MIC2214-WSYML-TR
MIC2215-AAAYML-TR
MIC2215-MMGYML-TR
MIC2215-MMMYML-TR
MIC2215-PMMYML-TR
MIC2215-PPGYML-TR
MIC2215-PPMYML-TR
MIC2215-PPPYML-TR
MIC2219-PSYML-TR
MIC5159-1.8YM6-TR
MIC5159YM6-TR
MIC5232-1.2YD5-TR
MIC5232-1.2YML-TR
MIC5232-1.8YD5-TR
MIC5232-1.8YD5-TX
MIC5232-1.8YML-TR
MIC5232-2.5YD5-TR
MIC5232-2.5YML-TR
MIC5232-2.8YD5-TR
MIC5232-2.8YML-TR
MIC5232-3.3YD5-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
MIC5232-3.3YML-TR
MIC5245-2.5YM5-TR
MIC5245-2.6YM5-TR
MIC5245-2.7YM5-TR
MIC5245-2.85YM5-TR
MIC5245-2.8YM5-TR
MIC5245-3.0YM5-TR
MIC5245-3.1YM5-TR
MIC5245-3.2YM5-TR
MIC5245-3.3YM5-TR
MIC5245-3.3YMM
MIC5245-3.3YMM-TR
MIC5247-1.5YM5-TR
MIC5247-1.5YML-TR
MIC5247-1.6YM5-TR
MIC5247-1.6YM5-TX
MIC5247-1.6YML-TR
MIC5247-1.85YM5-TR
MIC5247-1.85YML-TR
MIC5247-1.8YD5-TR
MIC5247-1.8YM5-TR
MIC5247-1.8YM5-TX
MIC5247-1.8YML-TR
MIC5247-2.0YD5-TR
MIC5247-2.0YD5-TX
MIC5247-2.0YM5-TR
MIC5247-2.4YM5-TR
MIC5248-1.2YM5-TR
MIC5248-1.2YM5-TX
MIC5248-1.2YML-TR
MIC5249-1.5YMM
MIC5249-1.5YMM-TR
MIC5249-1.8YMM
MIC5249-1.8YMM-TR
MIC5249-2.5YMM
MIC5249-2.5YMM-TR
MIC5249-2.6YMM
MIC5249-2.6YMM-TR
MIC5249-2.85YMM
MIC5249-2.85YMM-TR
MIC5249-2.8YMM
MIC5249-2.8YMM-TR
MIC5249-3.0YMM

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Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
MIC5249-3.0YMM-TR
MIC5249-3.3YMM
MIC5249-3.3YMM-TR
MIC5252-1.5YM5-TR
MIC5252-1.5YML-TR
MIC5252-1.8YM5-TR
MIC5252-2.5YM5-TR
MIC5252-2.85YM5-TR
MIC5252-2.85YML-TR
MIC5252-2.8YM5-TR
MIC5252-2.8YML-TR
MIC5252-3.0YM5-TR
MIC5252-3.0YML-TR
MIC5252-4.75YM5-TR
MIC5253-1.5YC5-TR
MIC5253-1.85YC5-TR
MIC5253-1.8YC5-TR
MIC5253-2.5YC5-TR
MIC5253-2.5YC5-TX
MIC5253-2.6YC5-TR
MIC5253-2.7YC5-TR
MIC5253-2.85YC5-TR
MIC5253-2.8YC5-TR
MIC5253-2.9YC5-TR
MIC5253-3.0YC5-TR
MIC5253-3.1YC5-TR
MIC5253-3.2YC5-TR
MIC5253-3.3YC5-TR
MIC5254-SJYMM
MIC5254-SJYMM-TR
MIC5255-2.5CYW
MIC5255-2.5YD5-TR
MIC5255-2.5YM5-TR
MIC5255-2.5YM5-TX
MIC5255-2.6YD5-TR
MIC5255-2.6YM5-TR
MIC5255-2.75YM5-TR
MIC5255-2.7YD5-TR
MIC5255-2.7YM5-TR
MIC5255-2.85YD5-TR
MIC5255-2.85YM5-TR
MIC5255-2.85YML-TR
MIC5255-2.8YD5-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
MIC5255-2.8YM5-TR
MIC5255-2.8YML-TR
MIC5255-2.9YD5-TR
MIC5255-2.9YM5-TR
MIC5255-3.0YD5-TR
MIC5255-3.0YM5-TR
MIC5255-3.0YML-TR
MIC5255-3.1YM5-TR
MIC5255-3.2YM5-TR
MIC5255-3.3YD5-TR
MIC5255-3.3YD5-TX
MIC5255-3.3YM5-TR
MIC5255-3.3YM5-TX
MIC5255-3.3YML-TR
MIC5256-1.5YM5-TR
MIC5256-1.8YM5-TR
MIC5256-2.5YM5-TR
MIC5256-2.6YM5-TR
MIC5256-2.7YM5-TR
MIC5256-2.85YD5-TR
MIC5256-2.85YM5-TR
MIC5256-2.8YM5-TR
MIC5256-2.9YM5-TR
MIC5256-3.0YM5-TR
MIC5256-3.1YM5-TR
MIC5256-3.3YM5-TR
MIC5258-1.2YM5-TR
MIC5258-1.2YM5-TX
MIC5259-1.5YD5-TR
MIC5259-1.5YML-TR
MIC5259-1.8YD5-TR
MIC5259-1.8YML-TR
MIC5259-2.1YML-TR
MIC5259-2.5YD5-TR
MIC5259-2.5YD5-TX
MIC5259-2.5YML-TR
MIC5259-2.85YD5-TR
MIC5259-2.85YML-TR
MIC5259-2.8YD5-TR
MIC5259-2.8YML-TR
MIC5259-3.0YD5-TR
MIC5259-3.0YML-TR
MIC5259-3.3YD5-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
MIC5259-3.3YML-TR
MIC5259-4.75YD5-TR
MIC5259-4.75YML-TR
MIC5264-JGYML-TR
MIC5264-KGYML-TR
MIC5264-KKYML-TR
MIC5264-MFYML-TR
MIC5264-MGYML-TR
MIC5264-MJYML-TR
MIC5264-MKYML-TR
MIC5264-MMYML-TR
MIC5264-NFYML-TR
MIC5264-NGYML-TR
MIC5264-NNYML-TR
MIC5264-OFYML-TR
MIC5264-OGYML-TR
MIC5264-OKYML-TR
MIC5264-PGYML-TR
MIC5264-PJYML-TR
MIC5264-PMYML-TR
MIC5264-PPYML-TR
MIC5264-SFYML-TR
MIC5264-SGYML-TR
MIC5264-SJYML-TR
MIC5264-SMYML-TR
MIC5264-SPYML-TR
MIC5264-SSYML-TR
MIC5265-1.5YD5-TR
MIC5265-1.5YD5-TX
MIC5265-1.85YD5-TR
MIC5265-1.85YD5-TX
MIC5265-1.8YD5-TR
MIC5265-1.8YD5-TX
MIC5265-2.0YMT-TR
MIC5265-2.5YD5-TR
MIC5265-2.5YD5-TX
MIC5265-2.6YD5-TR
MIC5265-2.6YD5-TX
MIC5265-2.7YD5-TR
MIC5265-2.7YD5-TX
MIC5265-2.85YD5-TR
MIC5265-2.85YD5-TX
MIC5265-2.8YD5-TR

JAON-26ABPQ300 - CCB 1737.08 Intermediate Notice: Qualification of Microchip 8 inch Fabrication site for Micrel products manufactured with the CSI12 Process Technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-26ABPQ300
CATALOG_PART_NBR
MIC5265-2.8YD5-TX
MIC5265-2.8YMT-TR
MIC5265-2.9YD5-TR
MIC5265-2.9YD5-TX
MIC5265-2.9YMT-TR
MIC5265-3.0YD5-TR
MIC5265-3.0YD5-TX
MIC5265-3.0YMT-TR
MIC5265-3.1YD5-TR
MIC5265-3.1YD5-TX
MIC5265-3.2YD5-TR
MIC5265-3.2YD5-TX
MIC5265-3.3YD5-TR
MIC5265-3.3YD5-TX
MIC5265-3.3YMT-TR
MIC5268-1.2YM5-TR
MIC5268-1.2YM5-TX
MIC5400YWM
MIC5400YWM-TR
MICRF001YM
MICRF001YM-TR
MICRF001YN
MICRF008YM
MICRF008YM-TR
SPN020077Y-TR
SPN025001G-TR



MICROCHIP

QUALIFICATION REPORT
RELIABILITY LABORATORY

PCN #: JAON-26ABPQ300

Date
April 5, 2016

**Qualification of Microchip 8 inch Fabrication site for Micrel products
manufactured with the CSI12 Process Technology.**

PART NUMBER/MASK	PACKAGE TYPE	ASSEMBLY LOCATION	WAFER SIZE	PROCESS NAME
MIC5249YMM/288A1	MSOP-8L	STARS, THAILAND	8"	CSI 1.2

DIE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	168 HR Rej/ss	500 HR Rej/ss	1000 HR Rej/ss	COMMENTS
HTOL High Temperature Operating Life Test	JESD22, Method 108	1547	V216216098.100MQB	0/77	0/77	0/77	
	TA= + 125°C	1547	V216216098.120MQB	0/77	0/77	0/77	
	VCC = +6.0V	1549	V216266959.000MQF	0/77	0/77	0/77	

ELECTROSTATIC DISCHARGE

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
ESD-HBM Human Body Model ATE Test @ Room +25C	R= 1500 Ohms C= 100 pF 1X +/- Voltage	1546H	V216216098.100MQB	+/-1500V	0/3	Note: ESD ratings are device specific. All Products qualified on the 8" Micrel process technologies will have the same or better ESD and Latch-up performance as the 6" San Jose Products.
ESD-CDM Charged Device Model ATE Test @ Room +25C	JESD22-C101 1X +/- Voltage	1546H	V216216098.100MQB	+/-1500V	0/3	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
LATCH-UP	JESD-78 TA = +25°C	1546H	V216216098.100MQB	I/O LU O/V LU	0/6 0/6	

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PACKAGE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	Rej/ss	COMMENTS	
Level 1 Pre-conditioning Flow	JESD22-A113	1547	V216216098.120MQB	0/143		
		1549	V216266959.000MQF	0/223		
		1608	V216266959.100MDQ	0/293		
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS	
PRESSURE POT With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A102 Ta = +121°C/100%RH 15 PSIG	1547	V216216098.120MQB	0/45		
		1549	V216266959.000MQF	0/45		
		1609	V216266959.100MQD	0/45		
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS	
HAST With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A110 (BIASED) Ta= +130°C/85%RH VCC = +6.0V	1547	V216216098.120MQB	0/44		
		1549	V216266959.000MQF	0/45		
		1609	V216266959.100MQD	0/45		
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	500 CY Rej/ss	COMMENTS	
TEMP CYCLE With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A104 Ta = -65°C / +150°C	1547	V216216098.120MQB	0/45		
		1549	V216266959.000MQF	0/45		
		1609	V216266959.100MQD	0/45		
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	1000 HR Rej/ss	COMMENTS	
HTSL High Temperature Storage Life With Level 1 Pre-conditioning	JESD22-A103 Ta = +150°C	1547	V216216098.100MQB	0/76		
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	500 HR Rej/ss	1000 HR Rej/ss	COMMENTS
HTSL High Temperature Storage Life With Level 1 Pre-conditioning	JESD22-A103 Ta = +175°C	1547	V216216098.100MQB	SKIP	0/76	
FLAMMABILITY	UL-94V-0 Certified	All mold compounds used by Micrel meet this standard. See the UL website on-line list of material flammability certifications. Micrel requires a Certificate of Compliance from the assembly house and we verify the certifications on the web.				

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