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Product Change Notification - CSI0500022 - JAON-08AHID607 (Printer Friendly)

Date: 14 Mar 2017

Notification subject: CCB 1737.10 Final Notice: Release to production of listed Micrel Power Switch product type manufactured with the CSI05 process technology to Microchip Fab.

Notification text:

PCN Status:
Final Notification

Note: This final PCN only pertains to the products listed in this PCN. Additional final PCNs may be issued for this combination of product type and process technology.

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 .ls).

Description of Change:

Release to production of listed Micrel Power Switch product type manufactured with the CSI05 process technology to Microchip Fab.

NOTE: 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.

Pre and Post Change Summary:

	Pre Change	Post Change
Fab Site	Micrel fabrication site (San Jose, CA, USA)	Microchip fabrication site
Wafer Size	6 inch wafers	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:

As identified for each CPN listed in the attached parts list.

Summary Time Table of notable events to date:

	September 2015					-	September 2016					-	March 2017					April 2017	
	36	37	38	39	40		35	36	37	38	39		10	11	12	13	14	15	
Initial PCN Issue Date CYER-31JLEX869	X																		
Qual Report Available JAON-08AHID607									X										
Final PCN Issue Date JAON-08AHID607-CSI0500022														X					
Estimated First Ship Date																		As listed in the attached parts li	

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](#).

September 25, 2016: Issued intermediate notification as PCN number [JAON-08AHID607](#). Attached the Qualification Report. Revised the estimated first ship date (EFSD) to inform that the EFSD will be revealed in the final PCN.

March 14, 2017: Issued final notification as PCN number [JAON-08AHID607-CSI0500022](#) for listed Micrel's Power Switch products manufactured with the CSI05 process technology. Provided estimated first ship date (EFSD) for each CPN listed in the attached parts list.

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-08AHID607-CSI0500022_Affected CPN.pdf](#)
[PCN_JAON-08AHID607-CSI0500022_Qual_Report.pdf](#)
[PCN_JAON-08AHID607-CSI0500022_Affected CPN.xls](#)

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

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JAON-08AHID607-CSI0500022 - CCB 1737.10 Final Notice: Release to production of listed Micrel Power Switch product type manufactured with the CSI05 process technology to Microchip Fab.

Affected Catalog Part Numbers (CPN)

PCN_JAON-08AHID607-CSI0500022	
CATALOG_PART_NBR	Estimated First Ship Date (EFSD)
MIC94040YFL-TR	April 17, 2017
MIC94041YFL-TR	April 17, 2017
MIC94042YFL-TR	April 17, 2017
MIC94043YFL-TR	March 20, 2017
MIC94044YFL-TR	April 17, 2017
MIC94045YFL-TR	March 20, 2017
MIC94080YFT-TR	April 17, 2017
MIC94081YFT-TR	April 17, 2017
MIC94082YFT-TR	April 17, 2017
MIC94083YFT-TR	April 17, 2017
MIC94084YFT-TR	April 17, 2017
MIC94085YFT-TR	April 17, 2017



MICROCHIP

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN #: JAON-08AHID607-CSI0500022

Date
September 20, 2016

**Qualification of Microchip 8 inch Fabrication site for Micrel products
manufactured with the CSI05 Process Technology.**

PART NUMBER	PACKAGE TYPE	ASSEMBLY LOCATION	FAB LOCATION	PROCESS NAME
MIC23250-S4YMT-TR	DFN22-10L	UNISEM, IPOH, MALAYSIA	MICROCHIP FAB-2 TEMPE AZ.	CSI 0.5

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	1609	V216328088.100MQB	0/77	0/77	0/77	
	Ta = + 125°C	1606	V216328088.000MQJ	0/77	0/77	0/77	
	Vcc = +5.5V	1606	V216328088.000MQK	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	1609	V216328088.100MQB	+/-2000V	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	1609	V216328088.100MQB	+/-1500V	0/3	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
LATCH-UP	JESD-78 TA = +25°C	1609	V216328088.100MQB	I/O LU O/V LU	0/6 0/6	

PACKAGE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	Rej/ss	COMMENTS
Level 1 Pre-conditioning Flow	JESD22-A113	1609	V216328088.100MQB	0/323	
		1606	V216328088.000MQJ	0/143	
		1606	V216328088.000MQK	0/143	
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	1609	V216328088.100MQB	0/45	
		1606	V216328088.000MQJ	0/45	
		1606	V216328088.000MQK	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 = +5.5V	1609	V216328088.100MQB	0/45	
		1606	V216328088.000MQJ	0/45	
		1606	V216328088.000MQK	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	1609	V216328088.100MQB	0/45	
		1606	V216328088.000MQJ	0/45	
		1606	V216328088.000MQK	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 Tpeak + 260°C 3X Reflow	JESD22-A103 Ta = +150°C	1609	V216328088.100MQB	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.			