



Product Change Notification - CSI0500064 - JAON-08AHID607

Date:

25 Mar 2019

Product Category:

Power Management - Power Switches

Affected CPNs:**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.

PCN Type:

Manufacturing Change

Microchip Parts Affected:

Please open one of the icons found in the Affected CPNs section above.

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

Description of Change:

Release to 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 wafers.

Post Change:

Fabricated at Microchip fabrication site using wafers.

Pre and Post Change Summary:

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

Estimated First Ship Date (EFSD) are identified for each catalog part numbers (CPN) listed in the attached parts list. This can be found in the attachments field below labeled as PCN_#_Affected_CPN.

Summary Time Table of notable events to date:



	September 2015					->	September 2016					->	March 2019					->	May 2019							
Workweek	36	37	38	39	40		35	36	37	38	39		9	10	11	12	13		18	19	20	21	22			
Initial PCN Issue Date	X																									
CYER-31JLEX869																										
Qual Report Available																										
JAON-08AHID607									X																	
Final PCN Issue Date																										
JAON-08AHID607-CSI0500064															X											
Estimated First Ship Date																										As listed in the attached parts list

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

h 25, 2019: Issued final notification as PCN number -08AHID607-CSI0500064 for listed Micrel Power Switch product 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-CSI0500064 Affected CPN.pdf](#)
- [PCN JAON-08AHID607-CSI0500064 Qual Report.pdf](#)
- [PCN JAON-08AHID607-CSI0500064 Affected CPN.xls](#)

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



Terms and Conditions:

If you wish to receive Microchip PCNs via email please register for our PCN email service at our [PCN home page](#) select register then fill in the required fields. You will find instructions about registering for Microchips PCN email service in the [PCN FAQ](#) section.

If you wish to change your PCN profile, including opt out, please go to the [PCN home page](#) select login and sign into your myMicrochip account. Select a profile option from the left navigation bar and make the applicable selections.

Affected Catalog Part Numbers (CPN)

MIC2555-0YML-TR

MIC2555-1YML-TR

JAON-08AHID607-CSI0500063 - 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-CSI0500064	
CATALOG_PART_NBR	Estimated First Ship Date (EFSD)
MIC2555-0YML-TR	May 06, 2019
MIC2555-1YML-TR	May 06, 2019



MICROCHIP

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN #: JAON-08AHID607-CSI0500064

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.			