



Product Change Notification - BM2000008 - JAON-26TTXD112

Date:

18 Feb 2020

Product Category:

Hot Swap Controller

Affected CPNs:



Notification subject:

CCB 1737.07 Final Notice: Release to production of listed Micrel Controller product type manufactured with the BM2 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 production of listed Micrel Controller product type manufactured with the BM2 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:

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				->	April 2016				->	February 2020				March 2020				
	36	37	38	39	40	14	15	16	17		06	07	08	09	10	11	12	13	14
Initial PCN Issue Date CYER-31JLEX869	X																		
Qual Report Available JAON-26TTXD112									X										
Final PCN Issue Date JAON-26TTXD112-BM20000008													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](#).

April 29, 2016: Issued intermediate notification as PCN number [JAON-26TTXD112](#). 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.

February 18, 2020: Issued final notification as PCN number JAON-26TTXD112-BM20000008 for listed Micrel's Controller products manufactured with the BM2 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-26TTXD112-BM20000008 Affected CPN.pdf](#)

[PCN JAON-26TTXD112-BM20000008 Qual Report.pdf](#)

[PCN JAON-26TTXD112-BM20000008 Affected CPN.xls](#)

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

Terms and Conditions:



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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.



MICROCHIP

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN #: JAON-26TTXD112-BM20000008

Date
April 18, 2016

**Qualification of Microchip 8 inch Fabrication site for Micrel products
manufactured with the BM2 Process Technology.**

PART NUMBER / MASK	PACKAGE TYPE	ASSEMBLY LOCATION	WAFER SIZE	PROCESS NAME
MIC49150WR /26801	SPAK-5L	GTBF-CHINA	8"	BM2

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	1547P	V216226282.000MQB	0/77	0/77	0/77	
	TA= + 125°C	1547P	V216226282.110MQC	0/77	0/77	0/77	
	VCC = 6.5V	1603P	V216226282.100MQC	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	1547P	V216226282.000MQB	+/-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	1547P	V216226282.000MQB	+/-1500V	0/3	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
LATCH-UP	JESD-78 TA = +25°C	1547P	V216226282.000MQB	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 3 Pre-conditioning Flow	JESD22-A113	1547P	V216226282.000MQB	0/315	
		1547P	V216226282.110MQC	0/143	
		1603P	V216226282.100MQC	0/143	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS
PRESSURE POT With Level 3 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A102 Ta = +121°C/100%RH 15 PSIG	1547P	V216226282.000MQB	0/45	
		1547P	V216226282.110MQC	0/45	
		1603P	V216226282.100MQC	0/45	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS
HAST With Level 3 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A110 (BIASED) Ta = +130°C/85%RH VCC = 6.5V	1547P	V216226282.000MQB	0/45	
		1547P	V216226282.110MQC	0/45	
		1603P	V216226282.100MQC	0/45	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	500 CY Rej/ss	COMMENTS
TEMP CYCLE With Level 3 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A104 Ta = -65°C / +150°C	1547P	V216226282.000MQB	0/45	
		1547P	V216226282.110MQC	0/45	
		1603P	V216226282.100MQC	0/45	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	1000 HR Rej/ss	COMMENTS
HTSL High Temperature Storage Life With Level 3 Pre-conditioning	JESD22-A103 Ta = +175°C	1547P	V216226282.000MQB	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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Affected Catalog Part Numbers(CPN)

MIC2583-LYQS
MIC2583-KYQS
MIC2583R-LYQS
MIC2583R-MYQS
MIC2583R-KYQS
MIC2583-LYQS-TR
MIC2583-KYQS-TR
MIC2583R-LYQS-TR
MIC2583R-MYQS-TR
MIC2583R-KYQS-TR