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Product Change Notification - BCD2000015 - JAON22ZKEM744 [\(Convert To PDF\)](#)

Date: 08 May 2018
Product Category: Power Management - Power Switches
Affected CPNs:
Notification subject: CCB 1737.02 Final Notice: Release to production of listed Micrel Power Switch product type manufactured with the BCD2 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 Power Switch product type manufactured with the BCD2 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:

Jun	September 2015					-> February 2016				-> May 2018					
	36	37	38	39	40	05	06	07	08	18	19	20	21	22	23
Workweek															
Initial PCN Issue Date CYER31JLEX869	X														
Qual Report Available JAON22ZKEM744									X						
Final PCN Issue Date JAON22ZKEM744BCD2000015												X			
Estimated First Ship Date															As par

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**.

February 25, 2016: Issued intermediate notification as PCN number **JAON-22ZKEM744**. Attached the Qualification Report. Revised the estimated first ship date (EFSD) to inform that the EFSD will be revealed in the final PCN.

May 08, 2018: Issued final notification as PCN number JAON22ZKEM744-BCD2000015 for listed Micrel's Power Switch products manufactured with the BCD2 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-22ZKEM744-BCD2000015_Affected_CPN.pdf](#)
- [PCN_JAON-22ZKEM744-BCD2000015_Qual Report.pdf](#)
- [PCN_JAON-22ZKEM744-BCD2000015_Affected_CPN.xls](#)

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

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MICROCHIP

QUALIFICATION REPORT SUMMARY
RELIABILITY LABORATORY

PCN #: JAON-22ZKEM744-BCD2000015

Date
February 8, 2016

**Qualification of Microchip 8 inch Fabrication site for Micrel products
manufactured with the BCD2 Process Technology.**

PART NUMBER	PACKAGE TYPE	ASSEMBLY LOCATION	WAFER SIZE	PROCESS NAME
MIC2026-1YM /238A0/1	SOIC-8L	STARS, THAILAND	8"	BCD2

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	1542	V216.195868.000MQA	0/77	0/77	0/77	
	TA= + 125°C	1543	V216.195868.100MQA	0/77	0/77	0/77	
	VCC = 5.5V	1545	V216.216184.100MQA	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	1542	V216.195868.000MQA	+/-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	1542	V216.195868.000MQA	+/-1500V	0/3	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
LATCH-UP	JESD-78 TA = +25°C	1542	V216.195868.000MQA	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	1542	V216.195868.000MQA	0/321	
		1543	V216.195868.100MQA	0/143	
		1545	V216.216184.100MQA	0/145	
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	1542	V216.195868.000MQA	0/45	
		1543	V216.195868.100MQA	0/45	
		1545	V216.216184.100MQA	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 JESD22-A118 (UNBIASED)	1542	V216.195868.000MQA	0/45	
		1543	V216.195868.100MQA	0/45	
		1545	V216.216184.100MQA	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	1542	V216.195868.000MQA	0/45	
		1543	V216.195868.100MQA	0/45	
		1545	V216.216184.100MQA	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	1542	V216.195868.000MQA	0/76	
		1542	V216.195868.000MQA	0/76	
HTSL High Temperature Storage Life With Level 1 Pre-conditioning	JESD22-A103 Ta = +175°C	1542	V216.195868.000MQA	0/76	
		1542	V216.195868.000MQA	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)

PCN_JAON-22ZKEM744-BCD2000015	
CATALOG_PART_NBR	Estimated First Ship Date (EFSD)
MIC2042-2YM	June 15, 2018
MIC2043-1YM	June 15, 2018
MIC2043-2YM	June 15, 2018
MIC2042-2YTS	June 15, 2018
MIC2043-1YTS	June 15, 2018
MIC2043-2YTS	June 15, 2018
MIC2042-2YM-TR	June 15, 2018
MIC2043-1YM-TR	June 15, 2018
MIC2043-2YM-TR	June 15, 2018
MIC2042-2YTS-TR	June 15, 2018
MIC2043-1YTS-TR	June 15, 2018
MIC2043-2YTS-TR	June 15, 2018
MIC2545A-1YM	June 15, 2018
MIC2545A-2YM	June 15, 2018
MIC2549A-1YM	June 15, 2018
MIC2549A-2YM	June 15, 2018
MIC2545A-1YN	June 15, 2018
MIC2545A-2YN	June 15, 2018
MIC2545A-1YTS	June 15, 2018
MIC2545A-2YTS	June 15, 2018
MIC2549A-1YTS	June 15, 2018
MIC2549A-2YTS	June 15, 2018
MIC2545A-1YM-TR	June 15, 2018
MIC2545A-2YM-TR	June 15, 2018
MIC2549A-1YM-TR	June 15, 2018
MIC2549A-2YM-TR	June 15, 2018
MIC2545A-1YTS-TR	June 15, 2018
MIC2545A-2YTS-TR	June 15, 2018
MIC2549A-1YTS-TR	June 15, 2018