





Issue Date																		
<a href="#">CYER-31JLEX869</a>																		
Report Available							X											
<a href="#">JAON-11SIPZ900</a>																		
Final PCN Issue Date																		
JAON-11SIPZ900-BCDM000046										X								
Estimated First Ship Date																As listed in the attached parts list		

#### Markings to Distinguish Revised from Unrevised Devices:

and shipping label see

#### Revision History:

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

**April 14, 2016:** Issued intermediate notification as PCN number [JAON-11SIPZ900](#). Attached the Qualification Report. Revised the estimated first ship date (EFSD) to inform that the EFSD will be revealed in the final PCN.

**July 05, 2019:** Issued final notification as PCN number JAON-11SIPZ900-BCDM000046 listed Micrel's Regulator products manufactured with the BCDM process technology. Provided (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-11SIPZ900-BCDM000046 Affected CPN.pdf](#)

[PCN JAON-11SIPZ900-BCDM000046 Qual Report.pdf](#)

[PCN JAON-11SIPZ900-BCDM000046 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)

MIC5156CYW

MIC5156-3.3YM

MIC5156-5.0YM

MIC5156YM

MIC5156-3.3YN

MIC5156-5.0YN

MIC5156YN

MIC5156-3.3YM-TR

MIC5156-5.0YM-TR

MIC5156YM-TR

JAON-11SIPZ900 - BCDM000046 - CCB 1737.04 Final Notice: Release to production of listed Micrel Regulator product type manufactured with the BCDM process technology to Microchip Fab.

Affected Catalog Part Numbers (CPN)

PCN_JAON-11SIPZ900-BCDM000046	
CATALOG_PART_NBR	Estimated First Ship Date (EFSD)
MIC5156CYW	August 14, 2019
MIC5156-3.3YM	August 14, 2019
MIC5156-5.0YM	August 14, 2019
MIC5156YM	August 14, 2019
MIC5156-3.3YN	August 14, 2019
MIC5156-5.0YN	August 14, 2019
MIC5156YN	August 14, 2019
MIC5156-3.3YM-TR	August 14, 2019
MIC5156-5.0YM-TR	August 14, 2019
MIC5156YM-TR	August 14, 2019



**QUALIFICATION REPORT SUMMARY**  
**RELIABILITY LABORATORY**

**PCN #: JAON-11SIPZ900-BCDM000046**

**Date**  
**March 24, 2016**

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

PART NUMBER / MASK	PACKAGE TYPE	ASSEMBLY LOCATION	WAFER SIZE	PROCESS NAME
MIC29302WU / 20801	TO263-5L	GTBF,CHINA	8"	BCDM

DIE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	168 HR Rej/ss	1000 HR Rej/ss	COMMENTS
<b>HTOL</b> High Temperature Operating Life Test	JESD22, Method 108	1543P	V21618566.000MQB	0/77	0/77	
	TA= + 125°C	1543P	V21618566.100MQA	0/77	0/77	
	VCC = +26V	1543P	V21618566.111MQA	0/77	0/77	

<b>ELECTROSTATIC DISCHARGE</b>
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TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
<b>ESD-HBM</b>  Human Body Model ATE Test @ Room +25C	R= 1500 Ohms  C= 100 pF  1X +/- Voltage	1543P	V21618566.000MQB	+/-500V	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.
<b>ESD-CDM</b>  Charged Device Model ATE Test @ Room +25C	JESD22-C101  1X +/- Voltage	1543P	V21618566.000MQB	+/-1500V	0/3	

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
<b>LATCH-UP</b>	JESD-78  TA = +25°C	1543P	V21618566.000MQB	I/O LU O/V LU	0/6 0/6	LU Same as 6" process

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PACKAGE QUALIFICATION RESULTS						
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	Rej/ss	COMMENTS	
Level 3 Pre-conditioning Flow	JESD22-A113	1543P	V21618566.000MQB	0/321		
		1543P	V21618566.100MQA	0/143		
		1543P	V21618566.111MQA	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	1543P	V21618566.000MQB	0/45		
	Ta = +121°C/100%RH	1543P	V21618566.100MQA	0/45		
	15 PSIG	1543P	V21618566.111MQA	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)	1543P	V21618566.000MQB	0/45		
	Ta = +130°C/85%RH	1543P	V21618566.100MQA	0/45		
	VCC = +26V	1543P	V21618566.111MQA	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	1543P	V21618566.000MQB	0/45		
	Ta = -65°C / +150°C	1543P	V21618566.100MQA	0/45		
		1543P	V21618566.111MQA	0/45		
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	1000 HR Rej/ss	COMMENTS	
HTSL  High Temperature Storage Life Tpeak + 260°C 3X Reflow	JESD22-A103  Ta = +150°C	1543P	V21618566.000MQB	0/76		
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	500 HR Rej/ss	1000 HR Rej/ss	COMMENTS
HTSL  High Temperature Storage Life Tpeak + 260°C 3X Reflow	JESD22-A103  Ta = +175°C	1543P	V21618566.000MQB	0/76	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.				