



QUALIFICATION REPORT
RELIABILITY LABORATORY

PCN #: JAON-11SIPZ900

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
HTOL 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	

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	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.
ESD-CDM 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
LATCH-UP	JESD-78 TA = +25°C	1543P	V21618566.000MQB	I/O LU O/V LU	0/6 0/6	LU Same as 6" process

--

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.				

JAON-11SIPZ900-BCDM000002 - 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-BCDM000002	
CATALOG_PART_NBR	Estimated First Ship Date (EFSD)
MIC39100-3.3WS	July 19, 2016
MIC39100-3.3WS-TR	July 19, 2016
MIC29201-12WT	July 19, 2016
MIC29201-3.3WT	July 19, 2016
MIC29201-3.3WU	July 19, 2016
MIC29201-3.3WU-TR	July 19, 2016
MIC29201-3.3YM	July 19, 2016
MIC29201-3.3YM-TR	July 19, 2016
MIC29201-5.0WT	July 19, 2016
MIC29201-5.0WU	July 19, 2016
MIC29201-5.0WU-TR	July 19, 2016
MIC29202WT	July 19, 2016
MIC29202WU	July 19, 2016
MIC29202WU-TR	July 19, 2016
MIC29204YM	July 19, 2016
MIC29204YM-TR	June 14, 2016
MIC2920A-12WS	July 19, 2016
MIC2920A-12WS-TR	July 19, 2016
MIC2920A-12WT	July 19, 2016
MIC2920A-3.3WS	July 19, 2016
MIC2920A-3.3WS-TR	July 19, 2016
MIC2920A-3.3WT	July 19, 2016
MIC2920A-4.8WT	July 19, 2016
MIC2920A-5.0WS	July 19, 2016
MIC2920A-5.0WS-TR	June 14, 2016
MIC2920A-5.0WT	July 19, 2016
MIC29302WT	July 19, 2016
MIC29302WT-L2	July 19, 2016
MIC29302WT-L3	July 19, 2016
MIC29302WU	July 19, 2016
MIC29302WU-TR	July 19, 2016
MIC37102WR	July 22, 2016
MIC37102WR-TR	July 22, 2016
MIC37102YM	July 22, 2016
MIC37102YM-TR	June 23, 2016
MIC3775YMM	July 22, 2016
MIC3775YMM-TR	July 22, 2016
MIC5200-5.0YM	June 23, 2016
MIC5200-5.0YMM	July 22, 2016
MIC5200-5.0YMM-TR	July 22, 2016
MIC5200-5.0YM-TR	June 23, 2016
MIC5200-5.0YS	July 22, 2016

JAON-11SIPZ900-BCDM000002 - 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-BCDM000002	
CATALOG_PART_NBR	Estimated First Ship Date (EFSD)
MIC5200-5.0YS-TR	July 22, 2016
MIC5201-5.0YM	July 22, 2016
MIC5201-5.0YM-TR	July 22, 2016
MIC5201-5.0YS	July 22, 2016
MIC5201-5.0YS-TR	July 22, 2016
MIC5202-5.0YM	July 22, 2016
MIC5202-5.0YM-TR	July 22, 2016
MIC29152WD-TR	July 22, 2016
MIC29152WT	July 22, 2016
MIC29152WU	July 22, 2016
MIC29152WU-TR	July 22, 2016