



PCN# : P514AAB
Issue Date : Apr. 16, 2015

DESIGN/PROCESS CHANGE NOTIFICATION

This is to inform you that a change is being made to the products listed below.

Unless otherwise indicated in the details of this notification, the identified change will have no impact on product quality, reliability, electrical, visual or mechanical performance and affected products will remain fully compliant to all published specifications. Products incorporating this change may be shipped interchangeably with existing unchanged products.

This change is planned to take effect in 90 calendar days from the date of this notification. Please work with your local Fairchild Sales Representative to manage your inventory of unchanged product if your evaluation of this change will require more than 90 calendar days.

Please contact your local Customer Quality Engineer within 30 days of receipt of this notification if you require any additional data or samples. Alternatively, you may send an email request for data, samples or other information to PCNSupport@fairchildsemi.com.

Implementation of change:

Expected First Shipment Date for Changed Product : Jul. 15, 2015

Expected First Date Code of Changed Product :1529

Description of Change (From) :

LSOP/ MDIP packages manufactured at sub- contractors in China and Thailand.

Assembly Site	Thailand Sub-contractor	China Sub-contractor
Package	LSOP (7L/8L), MDIP(7L, 8L)	LSOP (7L/8L), MDIP(7L, 8L)
Lead frame	Cu LF with A194	Cu LF with A194
Die attach material	Ablebond 2200D	Kyocera CT284A
Wire	0.8/ 1.0mil Au wire	0.8/ 1.0mil Au wire
Mold Compound	Nitto GE800	KCC KTMC5800S

Description of Change (To) :

Alternate Assembly and test in sub- contractor in Philippines.

Assembly Site	Philippines Sub-contractor
Package	LSOP (7L/8L), MDIP(7L, 8L)
Lead frame	Cu LF with A194
Die attach material	Ablebond 84-1 LMISR4
Wire	0.8/ 1.0mil Au wire
Mold Compound	Nitto GE800

Reason for Change:

- Improved supply flexibility.
- Better quality and yields through equipment and facility upgrades.
 - Increased automation in handling and inspection in assembly.
- Fairchild partnerships with assembly subcontractors.
 - Best manufacturing practices- access to many customer methods and practices.
 - Advanced technology for fast ramp of future new products and technologies.

Affected Product(s): Please refer to the list of affected products in the addendum attached in the PCN email you received. This list is based on an analysis of your company's procurement history.

Qualification Plan	Device	Package	Process	No. of Lots
Q20140067	FSQ0370RLA	8LSOP	SDG4	1

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	125C, 560V	JESD22-A108	1000 hrs	0/77
High Temperature Operating Life test	125C, 22V/50V/560V	JESD22-A108	1000 hrs	0/77
High Accelerate Stressed Test	130C, 85%RH, 22V/100V	JESD22-A101	96 hrs	0/77
High Temperature Storage Test	150C	JESD22-A103	1000 hrs	0/77
Temperature Cycling1	-65C, 150C	JESD22-A104	500cyc	0/77

Qualification Plan	Device	Package	Process	No. of Lots
Q20140067	FSL136HRL	8LSOP	FS50D2D	1

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	125C, 520V	JESD22-A108	1000 hrs	0/77
High Temperature Operating Life test	125C, 26V/50V/520V	JESD22-A108	1000 hrs	0/77
High Accelerate Stressed Test	130C, 85%RH, 26V/100V	JESD22-A101	96 hrs	0/77
High Temperature Storage Test	150C	JESD22-A103	1000 hrs	0/77
Temperature Cycling1	-65C, 150C	JESD22-A104	500cyc	0/77

Qualification Plan	Device	Package	Process	No. of Lots
Q20140067	FSQ510M	7LSOP	SDG4D	1

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	125C, 560V	JESD22-A108	1000 hrs	0/77
High Temperature Operating Life test	100C, 5V/20V/50V/400V	JESD22-A108	1000 hrs	0/77
High Accelerate Stressed Test	130C, 85%RH, 11V/5V/50V	JESD22-A101	96 hrs	0/77
High Temperature Storage Test	150C	JESD22-A103	1000 hrs	0/77
Temperature Cycling1	-65C, 150C	JESD22-A104	500cyc	0/77

Qualification Plan	Device	Package	Process	No. of Lots
Q20140067	FSQ500N	8DIP	SDG4D	1

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	125C, 8V/560V	JESD22-A108	1000 hrs	0/77
High Temperature Operating Life test	100C, 50V	JESD22-A108	1000 hrs	0/77
High Accelerate Stressed Test	110C, 85%RH, 50V	JESD22-A101	264 hrs	0/77
High Temperature Storage Test	150C	JESD22-A103	1000 hrs	0/77
Temperature Cycling1	-65C, 150C	JESD22-A104	500cyc	0/77

Qualification Plan	Device	Package	Process	No. of Lots
Q20140067	KA5M0365RN	8DIP	BCH4B	1

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	125C, 520V	JESD22-A108	1000 hrs	0/77
High Temperature Operating Life test	125C, 24V/50V	JESD22-A108	1000 hrs	0/77
High Accelerate Stressed Test	130C, 85%RH, 20V to 15V	JESD22-A101	96 hrs	0/77
High Temperature Storage Test	150C	JESD22-A103	1000 hrs	0/77
Temperature Cycling1	-65C, 150C	JESD22-A104	500cyc	0/77

Qualification Plan	Device	Package	Process	No. of Lots
Q20140067	FAN7710VN	8DIP	HDG4	1

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	125C, 440V	JESD22-A108	1000 hrs	0/77
High Temperature Operating Life test	125C, 12V	JESD22-A108	1000 hrs	0/77
High Accelerate Stressed Test	130C, 85%RH, 12V	JESD22-A101	96 hrs	0/77
High Temperature Storage Test	150C	JESD22-A103	1000 hrs	0/77
Temperature Cycling1	-65C, 150C	JESD22-A104	500cyc	0/77

Qualification Plan	Device	Package	Process	No. of Lots
Q20140067	FSL306LRL	8DIP	HDG4	1

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	125C, 26V/520V	JESD22-A108	1000 hrs	0/77
High Temperature Operating Life test	125C, 22V/50V	JESD22-A108	1000 hrs	0/77
High Accelerate Stressed Test	110C, 85%RH, 26V/100V	JESD22-A101	264 hrs	0/77
High Temperature Storage Test	150C	JESD22-A103	1000 hrs	0/77
Temperature Cycling1	-65C, 150C	JESD22-A104	500cyc	0/77

Appendix A: Changed Products

DIGI-KEY : DIGI-KEY

PCN Number : P514AAB

Customer Name : DIGI-KEY CORPORATION

Product	Customer Part Number	BBB	Drawing
FSL306LRLX		Y	N
FSQ321L		Y	N
FSQ321LX		Y	N

Appendix A: Changed Products

DIGI-KEY : DIGI-KEY

PCN Number : P514AAB

Customer Name : DIGI-KEY

Product	Customer Part Number	BBB	Drawing
FSL136HRL		Y	N
FSL136HRLX		Y	N
FSL206MRL		Y	N
FSL306LRL		Y	N
FSL306LRLX		Y	N
FSQ0265RLX		Y	N
FSQ510		Y	N
FSQ510MX		Y	N