

PCN# : P5A2AA Issue Date : Nov. 24, 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.

Implementation of change:

Expected First Shipment Date for Changed Product : Feb. 22, 2016

Expected First Date Code of Changed Product :1609

Description of Change (From) : 5-inch wafer fabrication at Fairchild in Bucheon, South Korea

Description of Change (To) : 8-inch wafer fabrication at Fairchild in Bucheon, South Korea

Reason for Change:

Fairchild Semiconductor is increasing wafer fabrication capacity by qualifying 8-inch wafer fabrication line at Fairchild Semiconductor Bucheon Korea. Quality and reliability remain at the highest standards already demonstrated within Fairchild's existing products. The reliability qualification results used to qualify the 8-inch wafer fabrication line are summarized below.Design, die size and layout of the affected products will remain unchanged. There are no changes in the datasheet or electrical performance.

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 companys procurement history.

Qualification Plan	Device	Package	Process	No. of Lots
Q20140060	FFB20UP20DN_F085	D2PAK	Ultrafast	3

Test Description:	Condition:	Standard:	Duration:	Results:
Precon	MSL1, 245C	JESD22-A113	N/A	0/924
High Temperature Reverse Bias	160V,175C	JESD22-A108	1000 hrs	0/231
High Humidity High Temp. Reverse Bias(H3TRB)	85%RH, 85C,100V	JESD22-A101B	1000 hrs	0/231
Autoclave	100%RH, 121C	JESD22-A102	96 hrs	0/231
Temperature Cycle	-55C,150C	JESD22-A104	1000 cyc	0/231
Power Cycle	On/Off=3.5min, Delta Tj=100C	MIL-STD-750 M1037	8572 cyc	0/77
High Temperature Storage Life	175C	JESD22-A103	1000 hrs	0/231

Qualification Plan	Device	Package	Process	No. of Lots
QP1411001	RURP15100_F085	TO220	Ultrafast	3

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	1000V,175C	JESD22-A108	1000 hrs	0/231
Highly Accelerated Stress Test	85%RH, 130C,42V	JESD22-A110	96 hrs	0/231
Unbiased Accelerated Stress Test	85%RH, 130C	JESD22-A118	96 hrs	0/231
Autoclave	100%RH, 121C	JESD22-A102	96 hrs	0/231
Temperature Cycle	-55C,150C	JESD22-A104	1000 cyc	0/231
Power Cycle	On/Off=3.5min, Delta Tj=100C	MIL-STD-750 M1037	8572 cyc	0/231
High Temperature Storage Life	150C	JESD22-A103	1000 hrs	0/231

Qualification Plan	Device	Package	Process	No. of Lots
Q20140059	RHRG5060	TO247	Hyperfast	3

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	480V,175C	JESD22-A108	1000 hrs	0/231
High Humidity High Temp. Reverse Bias(H3TRB)	85%RH, 85C,100V	JESD22-A101B	1000 hrs	0/231
Autoclave	100%RH, 121C	JESD22-A102	96 hrs	0/231
Temperature Cycle	-55C,150C	JESD22-A104	1000 cyc	0/231
Power Cycle	On/Off 5 Min, Delta Tj=100C	MIL-STD-750 M1037	6000 cyc	0/77
High Temperature Storage Life	175C	JESD22-A103	1000 hrs	0/231

Qualification Plan	Device	Package	Process	No. of Lots
Q20140061	FSAM50SM60A	SPM32	PT-PIGBT	3

Test Description:	Condition:	Standard:	Duration:	Results:
High Temperature Reverse Bias	480V,125C	JESD22-A108	1000 hrs	0/75
Temperature Humidity Biased Test	85%RH, 85C, Vpn=100V, Vcc=15V	JESD22-A101	1000 hrs	0/75
Temperature Cycle	-45C,125C	JESD22-A104	200 cyc	0/228
High Temperature Storage Life	125C	JESD22-A103	1000 hrs	0/231