



PCN# : P613AAB
Issue Date : Feb. 03, 2016

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 :May. 03, 2016

Expected First Date Code of Changed Product :1619

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

Description of Change (To) :
6/8-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):

FCP400N80Z	FCPF400N80Z	FCPF400N80ZL1
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Qualification Plan	Device	Package	Process	No. of Lots
QP131201	FCPF400N80Z	TO-220F	Super-FET2	3

Test Description:	Condition:	Standard :	Duration:	Results:
High Temperature Gate Bias	150°C, Vgs = 20V	JESD22-A108	1000 hrs	0/231
High Temperature Reverse Bias	150°C, Vr = 800V	JESD22-A108	1000 hrs	0/231
High Temperature Storage Life	150°C	JESD22-A103	1000 hrs	0/231
Highly Accelerated Stress Test	130°C, 85%RH, Vr = 42V	JESD22-A110	96 hrs	0/231
Temperature Cycle	-65°C, 150°C	JESD22-A104	500 cycles	0/231



Title : Qualification Report for PCN : P613AAB

Date : Feb. 03, 2016

Affected devices :

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Product	Customer Part Number	BBB	Drawing
FCPF400N80Z		Y	N

Customer Name : DIGI-KEY (SPECIAL)

Customer Code : 0003948154

Product	Customer Part Number	BBB	Drawing
FCPF400N80Z		Y	N

Customer Name : DIGI-KEY CONSIGNMENT

Customer Code : 0003948144

Product	Customer Part Number	BBB	Drawing
FCPF400N80Z		Y	N
FCPF400N80ZL1		Y	N

Qualification Test Summary :

Qualification Plan	Device	Package	Process	No. of Lots
QP131201	FCPF400N80Z	TO-220F	Super-FET2	3

Test Description:	Condition:	Standard :	Duration:	Results:
High Temperature Gate Bias	150°C, Vgs = 20V	JESD22-A108	1000 hrs	0/231
High Temperature Reverse Bias	150°C, V _r = 800V	JESD22-A108	1000 hrs	0/231
High Temperature Storage Life	150°C	JESD22-A103	1000 hrs	0/231
Highly Accelerated Stress Test	130°C, 85%RH, V _r = 42V	JESD22-A110	96 hrs	0/231
Temperature Cycle	-65°C, 150°C	JESD22-A104	500 cycles	0/231

The selection methodology of qualification vehicles is aligned with JESD47 and if automotive devices are impacted by the PCN the selection of qualification vehicles is also align with the requirements in AEC-Q100 or AEC-Q101

Please contact your local Customer Quality Engineer if you have any questions concerning this data.