

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 ON 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 :Oct. 17, 2017

Expected First Date Code of Changed Product :1743

Description of Change (From) :
Assembly in ON Semiconductor Cebu.

Package	Assembly Site	BOM					
		Leadframe	Die & Clip Attach Material	Clip Material	Wire	Mold Compound	Terminal Finish
SPS PQFN5x5	ON Semiconductor Cebu, Philippines	C194 Cu leadframe with Ag spot plating	Solder Paste: Indium Corp. NC- SMQ75 Epoxy: Henkel QMI536NB	C194 Cu Clip	1.0 mil PCC wire	Hitachi CEL9240HF10LS	Sn

Description of Change (To) :

Added alternate assembly location in sub-contractor Malaysia. No changes to current marketing outline specification.

Package	Assembly Site	BOM					
		Leadframe	Die & Clip Attach Material	Clip Material	Wire	Mold Compound	Terminal Finish
SPS PQFN5x5	ON Semiconductor Cebu, Philippines	C194 Cu leadframe with Ag spot plating	Solder Paste: Indium Corp. NC-SMQ75 Epoxy: Henkel QMI536NB	C194 Cu Clip	1.0 mils PCC wire	Hitachi CEL9240HF10LS	Sn
SPS PQFN5x5	Sub-contractor in Malaysia	C194 Cu leadframe with Ag spot plating	Solder Paste: Indium Corp. NC-SMQ75 Epoxy: Henkel QMI536NB	C194 Cu Clip	1.0 mils PCC wire	Hitachi CEL9240HF10LS	Sn

Reason for Change:

- Improved supply flexibility.



Affected Product(s):

FDMF3035	FDMF3037	FDMF5804
FDMF5808A		

Qualification Plan	Device	Package	Process	No. of Lots
Q20160298	FDMF5808A	SPS55	BCD60MC PT8+ PT8+	3

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260°C, 3 cycles	JESD22-A113		0/711
Highly Accelerated Stress Test	130°C, 85%RH, Vr = +14V	JESD22-A110	96 hrs	0/237
Temperature Cycle	-65°C, 150°C	JESD22-A104	100 cycles 500 cycles 1000 cycles	0/237
Unbiased Highly Accelerated Stress Test	85%RH, 130C	JESD22-A118	96 hrs	0/237

Qualification Plan	Device	Package	Process	No. of Lots
Q20160299	FDMF5804	SPS55	BCD60MC PT8+ PT8 N W S PE	3

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260°C, 3 cycles	JESD22-A113		0/711
Highly Accelerated Stress Test	130°C, 85%RH, Vr = +14V	JESD22-A110	96 hrs	0/237
Temperature Cycle	-65°C, 150°C	JESD22-A104	100 cycles 500 cycles 1000 cycles	0/237
Unbiased Highly Accelerated Stress Test	85%RH, 130C	JESD22-A118	96 hrs	0/237

Qualification Plan (Reference)	Device	Package	Process	No. of Lots
Q20150476A	FDMF6820B	PQFN66	JAZZBC05 PT8 PT8	3

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260°C, 3 cycles	JESD22-A113		0/395
High Temperature Operating Life	125°C, Vr = +14V	JESD22-A108	168 hrs 500hrs 1000 hrs	0/79
High Temperature Storage Life	150°C	JESD22-A103	168 hrs 500hrs 1000 hrs	0/237
Power Cycle	Delta 100CC, 2.0 Min cyc	JESD22-A105	5000 cys 10000 cys	0/79

Qualification Plan (Reference)	Device	Package	Process	No. of Lots
Q20150482A	FDPC5030SG	PQFN56 Multiphase	PT8 N PT8 N W S PE	2

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260°C, 3 cycles	JESD22-A113		0/632
High Temperature Storage Life	150°C	JESD22-A103	168 hrs 500hrs 1000 hrs	0/158
Highly Accelerated Stress Test	130°C, 85%RH, Vr = 24V	JESD22-A110	96 hrs	0/158
Temperature Cycle	-65°C, 150°C	JESD22-A104	100 cycles 500 cycles 1000 cycles	0/158
Unbiased Highly Accelerated Stress Test	85%RH, 130C	JESD22-A118	96 hrs	0/158