

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 : Mar. 26, 2012

Expected First Date Code of Changed Product :1204

Last Date for Shipment of Unchanged Product : Mar. 26, 2012

Description of Change (From) :

6-in wafer fabrication line at Fairchild Semiconductor Salt Lake, Utah.

Description of Change (To) :

6-in or 8-in wafer fabrication line at Fairchild Semiconductor Salt Lake, Utah.

Reason for Change:

Fairchild Semiconductor is increasing wafer fabrication capacity by qualifying an 8-in wafer fabrication line at Fairchild Semiconductor Salt Lake, Utah. Quality and reliability remain at the highest standards already demonstrated within Fairchild's existing products. The reliability qualification results used to qualify the 8-in wafer fabrication line are summarized below. The specific groups of products/MOSFET technologies are listed in the affected FSIDs list. Design, die size and layout of the affected products will remain unchanged. There are no changes in the datasheet or electrical performance between products manufactured on the 6-in or the 8-in wafer fabrication line. Products from the two fabrication lines may be shipped interchangeably.

Affected Product(s):

FDB035N10A	FDB075N15A	FDB082N15A
FDB110N15A	FDB390N15A	FDB8444
FDB8445	FDB8447L	FDB8453LZ
FDB86102LZ	FDB86135	FDB8860
FDB8870	FDB8880	FDB8896
FDB8896_F123	FDC637BNZ	FDC655BN
FDC655BN_F123	FDC655BN_G	FDC855N
FDC8601	FDC8602	FDC86244
FDC8878	FDC8884	FDC8886
FDD0207	FDD050N03B	FDD390N15A
FDD8444	FDD8445	FDD8447L
FDD8447L_F123	FDD8451	FDD8451_GSN00010
FDD8453LZ	FDD86102	FDD86102LZ
FDD86110	FDD86250	FDD86252
FDD86326	FDD8770	FDD8778
FDD8780	FDD8782	FDD8796
FDD8796_SN00009	FDD8870	FDD8870_SBSA002
FDD8874	FDD8876	FDD8878
FDD8878_NBSE001	FDD8880	FDD8880_G
FDD8882	FDD8896	FDD8896_F123
FDD8896_G	FDFS6N548	FDFS6N754
FDG1024NZ	FDG410NZ	FDG8850NZ
FDH055N15A	FDI045N10A_F102	FDMA0100
FDMA0102	FDMA0104	FDMA1024NZ
FDMA1028NZ	FDMA1028NZ_F021	FDMA2002NZ
FDMA3028N	FDMA410NZ	FDMA420NZ
FDMA430NZ	FDMA7630	FDMA7632
FDMA7670	FDMA7672	FDMA8884
FDMA905P	FDMA905P_F130	FDMB2307NZ
FDMC0200S	FDMC0202S	FDMC0223
FDMC0223S	FDMC0224	FDMC0225
FDMC0225S	FDMC0310AS	FDMC2512SDC
FDMC2514SDC	FDMC7200	FDMC7200S
FDMC7200_F073	FDMC7200_F128	FDMC7570S
FDMC7572S	FDMC7582	FDMC7660
FDMC7660DC	FDMC7660S	FDMC7664
FDMC7672	FDMC7672S	FDMC7672S_F125
FDMC7672S_F126	FDMC7672S_F127	FDMC7672_F073
FDMC7672_F125	FDMC7678	FDMC7680
FDMC7692	FDMC7692S	FDMC7692S_F125

Affected Product(s):

FDMC7692S F126	FDMC7692S F127	FDMC7692 F073
FDMC7692 F126	FDMC7692 F127	FDMC7692 SN00195
FDMC7692 SN00203	FDMC7696	FDMC8015L
FDMC8026S	FDMC8030	FDMC8200
FDMC8200S	FDMC8200 F128	FDMC8554
FDMC8588	FDMC86102	FDMC86102L
FDMC86102LZ	FDMC86106LZ	FDMC8622
FDMC86240	FDMC86244	FDMC86324
FDMC8854	FDMC8854 SB82238	FDMC8878
FDMC8878 F126	FDMC8878 F127	FDMC8878 SB82237
FDMC8882	FDMC8882 F126	FDMC8884
FDMC8884 F126	FDME1024NZT	FDME410NZT
FDME905PT	FDMF6700	FDMF6705
FDMF6705B	FDMF6705V	FDMF6706B
FDMF6706C	FDMF6707B	FDML7610AS
FDML7610S	FDMQ8403	FDMS0300S
FDMS0302S	FDMS0306AS	FDMS0306CS
FDMS0306S	FDMS0308AS	FDMS0308AS SN00224
FDMS0308CS	FDMS0308S	FDMS0308S SN00174
FDMS0309AS	FDMS0309S	FDMS0310AS
FDMS0310CS	FDMS0310S	FDMS0312AS
FDMS0312S	FDMS0312S SN00177	FDMS0341S
FDMS0342S	FDMS0343S	FDMS0345S
FDMS0346	FDMS0347	FDMS0349
FDMS0350S	FDMS0351S	FDMS0352S
FDMS0353S	FDMS0354S	FDMS0355AS
FDMS0355S	FDMS2502SDC	FDMS2504SDC
FDMS2506SDC	FDMS2508SDC	FDMS2510SDC
FDMS3016DC	FDMS3600AS	FDMS3600S
FDMS3602AS	FDMS3602S	FDMS3604AS
FDMS3604S	FDMS3606AS	FDMS3606S
FDMS3610S	FDMS3615S	FDMS3616S
FDMS3620S	FDMS3622S	FDMS3624S
FDMS3626S	FDMS3660S	FDMS3664S
FDMS3668S	FDMS7556S	FDMS7558S
FDMS7560S	FDMS7570S	FDMS7572S
FDMS7578	FDMS7580	FDMS7600AS
FDMS7602S	FDMS7603S	FDMS7606
FDMS7608S	FDMS7620S	FDMS7621S
FDMS7650	FDMS7650DC	FDMS7656AS

Affected Product(s):

FDMS7658AS	FDMS7658AS SN00232	FDMS7660
FDMS7660AS	FDMS7670	FDMS7670AS
FDMS7672	FDMS7672AS	FDMS7676
FDMS7680	FDMS7681	FDMS7682
FDMS7692	FDMS7692A	FDMS7694
FDMS7694 SN00176	FDMS7696A	FDMS7698
FDMS7700S	FDMS8018	FDMS8020
FDMS8023S	FDMS8025AS	FDMS8025S
FDMS8025S SN00206	FDMS8026S	FDMS8027S
FDMS8027S SN00204	FDMS8558S	FDMS8560S
FDMS8570S	FDMS86101	FDMS86101 SN00014
FDMS86101 SN00155	FDMS86101 SN00235	FDMS86102LZ
FDMS86103L	FDMS86104	FDMS86105
FDMS86200	FDMS86201	FDMS8622
FDMS86252	FDMS86322	FDMS8848NZ
FDN359BN	FDN359BN F095	FDN8601
FDN86246	FDP027N08B F102	FDP036N10A
FDP045N10A F102	FDP075N15A F102	FDP083N15A F102
FDP085N10A F102	FDP150N10A F102	FDP8447L
FDP8860	FDP8870	FDP8870 SN00163
FDP8874	FDP8874 SN00117	FDP8876
FDP8880	FDP8896	FDPF045N10A
FDPF085N10A	FDPF190N15A	FDPF390N15A
FDPF770N15A	FDS8447	FDS8449
FDS8449 G	FDS86106	FDS86140
FDS86141	FDS86240	FDS86242
FDS86252	FDS8813NZ	FDS8817NZ
FDS8817NZ G	FDS8817NZ SBSP001	FDS8840NZ
FDS8842NZ	FDS8870	FDS8870 G
FDS8876	FDS8876 F123	FDS8876 F40
FDS8878	FDS8878 F123	FDS8878 G
FDS8878 NBSE002	FDS8878 SN00199	FDS8880
FDS8880 F123	FDS8880 G	FDS8880 SN00134
FDS8882	FDS8884	FDS8884 G
FDS8896	FDS8896 F123	FDS8896 SBSW008
FDS89141	FDS89161	FDS89161LZ
FDS8949	FDS8978	FDS8978 F123
FDS8978 F40	FDS8978 G	FDS8984
FDS8984 F123	FDS8984 F40	FDT86102LZ
FDT86106LZ	FDT86113LZ	FDT86244

Affected Product(s):

FDT86246	FDT86256	FDZ192NZ
FDZ372NZ	FDZ372NZ SN00179	PCF2512W
PCF8554W	PCF86101W	PCF8896W
PCF8978W	PCFD8870W	

A qualification plan for PCN

Qualification Plan	Device	Package	Process	No. of Lots
QP10400847-F	FDMS0300S	PQFN 5x6	PT7 S/ PT8 S	2

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260C, 3 cycles	JESD22-A113		0/316
Highly Accelerated Stress Test	130C, 85%RH, 24V	JESD22-A110	96 hrs	0/158
High Temperature Storage Life	175C	JESD22-A103	500 hrs	0/158
High Temperature Reverse Bias	125C, 24V	JESD22-A108	1000 hrs	0/158
High Temperature Gate Bias	150C, 20V	JESD22-A108	1000 hrs	0/158
Power Cycle	Delta 100CC, 2 Min cycle	JESD22-A105	10000 cycles	0/158
Temperature Cycle	-65C, 150C	JESD22-A104	500 cycles	0/158

Qualification Plan	Device	Package	Process	No. of Lots
QP10400847-F	FDMS0310S	PQFN 5x6	PT7 S	1

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260C, 3 cycles	JESD22-A113		0/158
Highly Accelerated Stress Test	130C, 85%RH, 24V	JESD22-A110	96 hrs	0/79
High Temperature Storage Life	175C	JESD22-A103	500 hrs	0/79
High Temperature Reverse Bias	125C, 24V	JESD22-A108	1000 hrs	0/79
High Temperature Gate Bias	150C, 20V	JESD22-A108	1000 hrs	0/79
Power Cycle	Delta 100CC, 2 Min cycle	JESD22-A105	10000 cycles	0/79
Temperature Cycle	-65C, 150C	JESD22-A104	500 cycles	0/79

Qualification Plan	Device	Package	Process	No. of Lots
Q20110386	FDMC7692S	MLP 3.3X3.3 8L	PT7 N S	1

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260C, 3 cycles	JESD22-A113		0/158
MSL1	260C, 3 cycles	J-STD_020		0/22
Highly Accelerated Stress Test	130C, 85%RH, 24.0V	JESD22-A110	96 hrs	0/79
High Temperature Storage Life	150C	JESD22-A103	1000 hrs	0/79
High Temperature Reverse Bias	150C, 24.0V	JESD22-A108	1000 hrs	0/79
High Temperature Gate Bias	150C, 30.0V	JESD22-A108	1000 hrs	0/79
Power Cycle	Delta 100CC, 2 Min cycle	JESD22-A122	10000 cycles	0/79
Temperature Cycle	-65C, 150C	JESD22-A104	500 cycles	0/79
Bond Pull	9.0g	JESD22-C100		0/5
Bond Shear	90g	AEC-Q100-001		0/5
Die Shear	0.4g/mil sq	MIL-STD-883-2019		0/5