

DESIGN/PROCESS CHANGE NOTIFICATION -- FINAL

This is to inform you that a design and/or process change will be made to the following product(s). This notification is for your information and concurrence.

If you require data or samples to qualify this change, please contact **Fairchild Semiconductor within 30 days of receipt of this notification.**

Updated process quality documentation, such as FMEAs and Control Plans, are available for viewing upon request.

If you have any questions concerning this change, please contact:

Technical Contact:

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E-mail: peter.po@fairchildsemi.com

Phone: Ex. 2267

PCN Originator:

Name: lee, suongchin

E-mail: suongchin.lee@fairchildsemi.com

Phone: Ex. 2304

Implementation of change:

Expected 1st Device Shipment Date: 2010/12/14

Earliest Year/Work Week of Changed Product: 1042

Change Type Description: Alternate Assembly/Test Location/Qualification

Description of Change (From): 7-, 8- and 14-lead MDIP and 7- and 8-lead LSOP packages assembled and tested at Kodenshi SY Corp, China.

Description of Change (To): 7-, 8- and 14-lead MDIP and 7- and 8-lead LSOP packages assembled and tested at Vigilant Technology Company Limited, Thailand.

Reason for Change : To provide an alternative manufacturing site for the listed packages. This 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 products. If you require data or samples to evaluate this change, please contact Fairchild Semiconductor within 30 days of receipt of this notification. Unnecessary delays in requesting data or samples may limit Fairchild's ability to provide a continuous supply of product. 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 needs if your evaluation of this change will require more than 90 calendar days.

Qual/REL Plan Number(s): Q20100384

Qualification :

Vigilant Technology Company Limited, Thailand is qualified to manufacture MDIP-7L, MDIP-8L, MDIP-14L, LSOP-7L and LSOP-8L packages based on successfully meeting Fairchild's requirements for reliability and electrical performance.

Change From

Item	MDIP-8L Details	LSOP-7/8L Details	MDIP-7L Details	MDIP-14L Details
Assembly Site	Kodenshi SY Corp	Kodenshi SY Corp	Kodenshi SY Corp	Kodenshi SY Corp
Wire	Au 1.0~1.2 mil	Au 1.0 mil	Au 1.0 mil	Au 1.0 mil
Die Attach	SK-5 DK & DAD-90	SK-5 DK & DAD-90	SK-5 DK & DAD-90	SK-5 DK & DAD-90
Leadframe	Copper	Copper	Copper	Copper
Mold Compound	SG8200-DL, GR360A-2, KTMC1030NFE	KTMC5800S	SI7200DX2	SI7200DM

Change To

Item	MDIP-8L Details	LSOP-7/8L, MDIP-7L/14L
Assembly Site	Vigilant Technology Company Limited	Vigilant Technology Company Limited
Wire	Au 0.8~1.0 mil	Au 0.8~1.0 mil
Die Attach	Ablestik : 2200D	Ablestik : 2200D
Leadframe	Copper	Copper
Mold Compound	GE- 800 (Nitto)	GE- 800 (Nitto)

Results/Discussion for Qual Plan Number(s): Q20100384

Test: (High Temperature Op Life) | Conditions: 125C | Standard:

Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20100384AAHTOL	FSFM261N	0/77			
			0/77		
				0/77	
Q20100384ABHTOL		0/77			
			0/77		
				0/77	
Q20100384ACHTOL		0/77			
			0/77		
				0/77	

Test: (High Temperature Reverse Bias) | Conditions: 125C, 560V | Standard: JESD22-A108

Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20100384AAHTRB		0/77			
			0/77		
				0/77	
Q20100384ABHTRB		0/77			
			0/77		
				0/77	
Q20100384ACHTRB		0/77			
			0/77		
				0/77	

Test: (High Temperature Storage Life) | Conditions: 150C | Standard: JESD22-A103

Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20100384AAHTSL		0/77			
			0/77		
				0/77	
Q20100384ABHTSL		0/77			
			0/77		
				0/77	
Q20100384ACHTSL		0/77			
			0/77		
				0/77	

Test: (Highly Accelerated Stress Test) | Conditions: 85%RH, 110C, 21V | Standard: JESD22-A110

Lot	Device	96-HOURS	264-HOURS	Failure Code
Q20100384AAHAST2	FSFM261N	0/77		
Q20100384AAHAST2	FSFM261N		0/77	
Q20100384ABHAST2	FSFM261N	0/77		
Q20100384ABHAST2	FSFM261N		0/77	
Q20100384ACHAST2	FSFM261N	0/77		

Q20100384ACHAST2	FSFM261N		0/77	
Test: (Static Op Life) Conditions: 125C, 520V Standard: JESD22-A108				
Lot	Device	168-HOURS	500-HOURS	1000-HOURS
Q20100384AASOPL1		0/77		
			0/77	
				0/77
Q20100384ABSOPL1		0/77		
			0/77	
				0/77
Q20100384ACSOPL1		0/77		
			0/77	
				0/77
Test: (Temperature Cycle) Conditions: -65C, 150C Standard: JESD22-A104				
Lot	Device	100-CYCLES	500-CYCLES	Failure Code
Q20100384AATMCL1	FSFM261N	0/77		
Q20100384AATMCL1	FSFM261N		0/77	
Q20100384ABTMCL1	FSFM261N	0/77		
Q20100384ABTMCL1	FSFM261N		0/77	
Q20100384ACTMCL1	FSFM261N	0/77		
Q20100384ACTMCL1	FSFM261N		0/77	
Q20100384BATMCL1	FSQ100	0/77		
Q20100384BATMCL1	FSQ100		0/77	
Q20100384BBTMCL1	FSQ100	0/77		
Q20100384BBTMCL1	FSQ100		0/77	
Q20100384BC TMCL1	FSQ100	0/77		
Q20100384BC TMCL1	FSQ100		0/77	

Product Id Description :

Affected FSIDs :

FAN7382N	FAN73832N	FAN7387N
FAN7387VN	FAN7390N	FAN7392N
FAN7527BN	FAN7554	FAN7601BN
FAN7602BN	FAN7602N	FAN7710VLN
FAN7710VN	FAN7711N	FAN7711SN
FAN7711ZN	FSDH0265RN	FSDH321L
FSDH321	FSDL0165RN	FSDL321
FSDM0265RNB	FSDM0365RNB	FSDM0365RNC
FSDM311A	FSDM311	FSEL0165RN
FSEM0265RNB	FSEM0365RNB	FSEM311Z
FSEM311	FSFM260N	FSFM261N
FSFM300N	FSGM300N	FSL106HR
FSL106MR	FSL116LR	FSL126MR
FSL136MR	FSL206MRL	FSL206MRN
FSQ0165RL	FSQ0165RN	FSQ0170RNA
FSQ0265RL	FSQ0265RN	FSQ0270RNA
FSQ0365RLX	FSQ0365RL	FSQ0365RN
FSQ0370RLA	FSQ0370RNA	FSQ100
FSQ110	FSQ210	FSQ211
FSQ321LX	FSQ321L	FSQ321
FSQ500N	FSQ510MX	FSQ510M
FSQ510	HT8822N	KA34063A
KA3842ACS	KA3842B	KA3843B
KA3844B	KA5H0165RN	KA5L0365RN
KA5M0165RN	KA5M02659RN	KA5M0365RN
KA7552A	KA7553A	LAF0001N

EBV : EBV DMDP \ MAIN

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

FAIRCHILD PART NUMBER**CUSTOMER PART NUMBER**

FAN7382N

FAN7527BN

FAN7554

FAN7711N

FSDH0265RN

FSDH321

FSDH321L

FSDL0165RN

FSDM0365RNB

FSDM311A

FSFM300N

FSQ0165RL

FSQ0165RN

FSQ0265RL

FSQ0265RN

FSQ0365RL

FSQ0365RLX

FSQ0365RN

FSQ0370RLA

FSQ0370RNA

FSQ100

FSQ110

FSQ211

FSQ321

FSQ510M

FSQ510MX

KA34063A

KA3842ACS

KA3842B

KA3843B

KA3844B

KA5M0365RN

EBV : EBV EUR STD/GERMANY

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

FAIRCHILD PART NUMBER**CUSTOMER PART NUMBER**

FAN7382N

FAN7527BN

FAN7554

FAN7711N

FSDH0265RN

FSDH321

FSDH321L

FSDL0165RN

FSDM0365RNB

FSDM311A

FSFM300N

FSQ0165RL

FSQ0165RN

FSQ0265RL

FSQ0265RN

FSQ0365RL

FSQ0365RLX

FSQ0365RN

FSQ0370RLA

FSQ0370RNA

FSQ100

FSQ110

FSQ211

FSQ321

FSQ510M

FSQ510MX

KA34063A

KA3842ACS

KA3842B

KA3843B

KA3844B

KA5M0365RN

EBV : EBV EURO

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

FAIRCHILD PART NUMBER**CUSTOMER PART NUMBER**

FAN7382N

FAN7527BN

FAN7554

FAN7711N

FSDH0265RN

FSDH321

FSDH321L

FSDL0165RN

FSDM0365RNB

FSDM311A

FSFM300N

FSQ0165RL

FSQ0165RN

FSQ0265RL

FSQ0265RN

FSQ0365RL

FSQ0365RLX

FSQ0365RN

FSQ0370RLA

FSQ0370RNA

FSQ100

FSQ110

FSQ211

FSQ321

FSQ510M

FSQ510MX

KA34063A

KA3842ACS

KA3842B

KA3843B

KA3844B

KA5M0365RN

EBV : EBV EURO NON STD / GERMANY

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

FAIRCHILD PART NUMBER**CUSTOMER PART NUMBER**

FAN7382N

FAN7527BN

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FSDH0265RN

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FSDH321L

FSDL0165RN

FSDM0365RNB

FSDM311A

FSFM300N

FSQ0165RL

FSQ0165RN

FSQ0265RL

FSQ0265RN

FSQ0365RL

FSQ0365RLX

FSQ0365RN

FSQ0370RLA

FSQ0370RNA

FSQ100

FSQ110

FSQ211

FSQ321

FSQ510M

FSQ510MX

KA34063A

KA3842ACS

KA3842B

KA3843B

KA3844B

KA5M0365RN

EBV : EBV SACC (EBVBA) \ GER

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

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FSDM311A

FSFM300N

FSQ0165RL

FSQ0165RN

FSQ0265RL

FSQ0265RN

FSQ0365RL

FSQ0365RLX

FSQ0365RN

FSQ0370RLA

FSQ0370RNA

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FSQ211

FSQ321

FSQ510M

FSQ510MX

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KA3842B

KA3843B

KA3844B

KA5M0365RN

EBV : EBV SACC \ GERMANY

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

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FSDM0365RNB

FSDM311A

FSFM300N

FSQ0165RL

FSQ0165RN

FSQ0265RL

FSQ0265RN

FSQ0365RL

FSQ0365RLX

FSQ0365RN

FSQ0370RLA

FSQ0370RNA

FSQ100

FSQ110

FSQ211

FSQ321

FSQ510M

FSQ510MX

KA34063A

KA3842ACS

KA3842B

KA3843B

KA3844B

KA5M0365RN

EBV : EBV SPECIALDP \ GERMANY

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

FAIRCHILD PART NUMBER**CUSTOMER PART NUMBER**

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FSDM0365RNB

FSDM311A

FSFM300N

FSQ0165RL

FSQ0165RN

FSQ0265RL

FSQ0265RN

FSQ0365RL

FSQ0365RLX

FSQ0365RN

FSQ0370RLA

FSQ0370RNA

FSQ100

FSQ110

FSQ211

FSQ321

FSQ510M

FSQ510MX

KA34063A

KA3842ACS

KA3842B

KA3843B

KA3844B

KA5M0365RN

EBV : EBV \USD

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

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FSDH321L

FSDL0165RN

FSDM0365RNB

FSDM311A

FSFM300N

FSQ0165RL

FSQ0165RN

FSQ0265RL

FSQ0265RN

FSQ0365RL

FSQ0365RLX

FSQ0365RN

FSQ0370RLA

FSQ0370RNA

FSQ100

FSQ110

FSQ211

FSQ321

FSQ510M

FSQ510MX

KA34063A

KA3842ACS

KA3842B

KA3843B

KA3844B

KA5M0365RN

RS COMP : EBV/EURO/RS COMPONENTS

PCN Number: Q3103701

Impact Analysis Criteria: Billings, Active Contracts, Drawings

FAIRCHILD PART NUMBER**CUSTOMER PART NUMBER**

FAN7382N