

Date Created : 2007/11/29  
Date Issued On : 2007/12/07  
PCN# : Q4074811

FORECAST CHANGE NOTIFICATION

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. This is a preliminary notification. A Final PCN will be issued when qualification is complete and data is available.

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

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

Technical Contact:

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PCN Originator:

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Implementation of change:

Expected 1st Device Shipment Date: 2008/01/14

Earliest Year/Work Week of Changed Product: D0803

Change Type Description: Mold Compound

Description of Change (From): SSOT-3 and SSOT-6 package assembly in FSC approved manufacturing locations using non-Green mold compound as shown in table 1:

Description of Change (To): SSOT-3 and SSOT-6 package assembly at all FSC approved manufacturing locations using Green mold compound as shown in table 2:

Reason for Change : Green initiative by Fairchild Semiconductor. Fairchild Semiconductor is dedicated to being a good corporate citizen. All Fairchild Semiconductor products are 2nd level interconnect lead-free and RoHS compliance. The referenced material changes have been made to provide a "Full Green" (Halogen Free Flame Retardant) package. For additional details on the corporate wide green initiative please visit our Web site at:

<http://www.fairchildsemi.com/company/green/index.html> Manufacturing will occur at the same assembly facilities producing the current non-green products. Package outline drawings of the affected products remain un-changed. Green products will be fully compliant to all published data sheet specifications and will be interchangeable with current non-green product. Quality and reliability will remain at the highest standards already demonstrated with Fairchild's existing products.

Qual/REL Plan Numbers : Q20070473

Qualification :

Qualification of Green Molding compound for SSOT-3 and SSOT-6.

Change From

<b>For SS0T-3:</b>	
Assembly Site	FSCP (Cebu, Philippines)
Leadframe	Alloy 194
Die Attach	Eutectic
Wire	Gold
Mold Compound	Cookson AMC-2RC
Lead Finish	Matte Sn

<b>For SS0T-6:</b>	
Assembly Site	FSCP (Cebu, Philippines)
Leadframe	Alloy 194
Die Attach	Eutectic / Adhesive (QMI519)
Wire	Gold / Copper
Mold Compound	Cookson AMC-2RC
Lead Finish	Matte Sn

Change To

<b>For SS0T-3:</b>	
Assembly Site	FSCP (Cebu, Philippines)
Leadframe	Alloy 194
Die Attach	Eutectic
Wire	Gold
Mold Compound	KTMC 5200G
Lead Finish	Matte Sn

<b>For SS0T-6:</b>	
Assembly Site	FSCP (Cebu, Philippines)
Leadframe	Alloy 194
Die Attach	Eutectic / Adhesive (QMI519)
Wire	Gold / Copper
Mold Compound	Cookson CK5000A
Lead Finish	Matte Sn

### Qualification Stress Test and Sample Size Detail

Device #1	FAN2558SX
Package:	TTG23
#Leads:	006

#### Precondition Description:

				Read-points	Sample
Stress	P/C	Standard	Conditions		A
PCNL1A		JESD22-A113			0

#### Environment Stress Detail:

				Readpoints			Samples
Stress	P/C	Standard	Conditions	TP1	TP2	TP3	A
ACLV	X	JESD22-A102	100%RH, 121C	96			77
SOPL1		JESD22-A108	NA%RH, 150C	168	500	1000	77
THBT	X	JESD22-A101	85%RH, 85C, 5V	168	500	1000	77
TMCL1	X	JESD22-A104	-65C, 150C	100	500		77

Device #2	FDC365P
Package:	TTK23
#Leads:	C06

#### Precondition Description:

				Read-points	Sample

Stress	P/C	Standard	Conditions		A
PCNL1A		JESD22-A113			0

Environment Stress Detail:

				Readpoints		Samples
Stress	P/C	Standard	Conditions	TP1	TP2	A
ACLV	X	JESD22-A102	100%RH, 121C	96		77
PRCL		MIL-STD-750-1036	Delta 100CC, 2 Min cycle	5000	10000	77
TMCL1	X	JESD22-A104	-65C, 150C	100	500	77

Device #3	FDC637BNZ
Package:	TTK23
#Leads:	006

Precondition Description:

				Read-points	Sample		
Stress	P/C	Standard	Conditions		A	B	C
PCNL1A		JESD22-A113			0	0	0

Environment Stress Detail:

				Readpoints			Samples		
Stress	P/C	Standard	Conditions	TP1	TP2	TP3	A	B	C
ACLV	X	JESD22-A102	100%RH, 121C	96			77	77	77
HAST2	X	JESD22-A110	85%RH, 110C, 16V	132	264		77	77	77
HTGB		JESD22-A108	150C, 12V	168	500	1000	77	77	77
HTRB		JESD22-A108	150C, 16V	168	500	1000	77	77	77
PRCL		MIL-STD-750-1036	Delta 100?C, 2 Min cycle	5000	10000		77	77	77
TMCL1	X	JESD22-A104	-65C, 150C	100	500		77	77	77

Device #4	FDC638APZ
Package:	TTK23
#Leads:	006

Precondition Description:

				Read-points	Sample		
Stress	P/C	Standard	Conditions		A	B	C
PCNL1A		JESD22-A113			0	0	0

Environment Stress Detail:

				Readpoints			Samples		
Stress	P/C	Standard	Conditions	TP1	TP2	TP3	A	B	C
ACLV	X	JESD22-A102	100%RH, 121C	96			77	77	77
HAST2	X	JESD22-A110	85%RH, 110C, 16V	132	264		77	77	77
HTGB		JESD22-A108	150C, 8V	168	500	1000	77	77	77
HTRB		JESD22-A108	150C, 16V	168	500	1000	77	77	77
PRCL		MIL-STD-750-1036	Delta 100?C, 2 Min cycle	5000	10000		77	77	77
TMCL1	X	JESD22-A104	-65C, 150C	100	500		77	77	77

Device #5	FDC658AP
Package:	TTK23
#Leads:	006

Precondition Description:

				Read-points	Sample
Stress	P/C	Standard	Conditions		A
PCNL1A		JESD22-A113			0

Environment Stress Detail:

				Readpoints			Samples	
Stress	P/C	Standard	Conditions	TP1	TP2	TP3	A	B
ACLV	X	JESD22-A102	100%RH, 121C	96			77	
H3TRB	X	JESD22-A101B	85%RH, 85C, 24V	168	500	1000	77	
HAST2	X	JESD22-A110	85%RH, 110C, 24V	132	264		77	
HTGB		JESD22-A108	150C, 25V	168	500	1000	77	
HTRB		JESD22-A108	150C, 24V	168	500	1000	77	
PRCL		MIL-STD-750-1036	Delta 100CC, 2 Min cycle	5000	10000		77	
TMCL1	X	JESD22-A104	-65C, 150C	100	500		77	

Device #6	FDN338P
Package:	TTJ23
#Leads:	003

Precondition Description:

				Read-points	Sample	
Stress	P/C	Standard	Conditions		A	B
PCNL1A		JESD22-A113			0	0

Environment Stress Detail:

				Readpoints			Samples	
Stress	P/C	Standard	Conditions	TP1	TP2	TP3	A	B
ACLV	X	JESD22-A102	100%RH, 121C	96			77	77
H3TRB	X	JESD22-A101B	85%RH, 85C, 16V	168	500	1000	77	77
HAST2	X	JESD22-A110	85%RH, 110C, 16V	132	264		77	77
HTGB		JESD22-A108	150C, 8V	168	500	1000	77	77
HTRB		JESD22-A108	150C, 16V	168	500	1000	77	77
PRCL		MIL-STD-750-1036	Delta 100°C, 2 Min cycle	5000	10000		77	77
TMCL1	X	JESD22-A104	-65C, 150C	100	500		77	77
UHAST1	X	JESD22-A118	100%RH, 121C	96			77	77

Device #7	FDN371N
Package:	TTJ23
#Leads:	003

Precondition Description:

				Read-points	Sample
Stress	P/C	Standard	Conditions		A
PCNL1A		JESD22-A113			0

Environment Stress Detail:

				Readpoints			Samples	
Stress	P/C	Standard	Conditions	TP1	TP2	TP3	A	B
HAST2	X	JESD22-A110	85%RH, 110C, 16V	132	264		77	

HTGB		JESD22-A108	150C, 12V	168	500	1000	77
HTRB		JESD22-A108	150C, 16V	168	500	1000	77
PRCL		MIL-STD-750-1036	Delta 100°C, 2 Min cycle	5000	10000		77
TMCL1	X	JESD22-A104	-65C, 150C	100	500		77
UHAST1	X	JESD22-A118	100%RH, 121C	96			77

Product Id Description : This forecast notification covers Fairchild Semiconductor SSOT-3 & SSOT-6 packages. For complete listing of products covered in this PCN release, please refer to the Affected FSID listing.

Affected FSIDs :

0332_B03005A	FAN2558SX	FAN2559S10X
FAN2559S13X	FAN2559S15X	FAN2559S18X
FDC2512	FDC2512_F073	FDC2512_F095
FDC2612	FDC2612_F073	FDC2612_F095
FDC2612_NL	FDC3512	FDC3512_F073
FDC3512_F095	FDC3601N	FDC3601N_NL
FDC3612	FDC3612_F073	FDC3612_F095
FDC365P	FDC5612	FDC5612_F073
FDC5612_F095	FDC5614P	FDC5614P_D87Z
FDC5614P_F073	FDC5614P_F095	FDC5614P_NL
FDC602P	FDC602P_F073	FDC602P_F095
FDC602P_NL	FDC604P	FDC604P_F073
FDC604P_F095	FDC604P_NL	FDC606P
FDC606P_F073	FDC606P_F095	FDC606P_NBCE003A
FDC606P_NL	FDC608PZ	FDC610PZ
FDC6301N	FDC6301N_NL	FDC6302P
FDC6303N	FDC6304P	FDC6305N
FDC6305N_NL	FDC6306P	FDC6306P_NL
FDC6310P	FDC6312P	FDC6312P_NL
FDC6318P	FDC6320C	FDC6321C
FDC6321C_NL	FDC6322C	FDC6322C_NL
FDC6323L	FDC6324L	FDC6324L_NL
FDC6325L	FDC6326L	FDC6326L_NL
FDC6327C	FDC6327C_NL	FDC6329L
FDC6329L_NL	FDC6330L	FDC6330L_NL
FDC6331L	FDC6331L_NL	FDC6333C
FDC6333C_NL	FDC633N	FDC633N_F073
FDC633N_F095	FDC633N_NB3E006	FDC633N_NL
FDC634P	FDC634P_F073	FDC634P_F095
FDC634P_NL	FDC636P	FDC636P_F073
FDC636P_F095	FDC637AN	FDC637AN_F073
FDC637AN_F095	FDC637AN_NB5E023A	FDC637AN_NB5E044
FDC637AN_NL	FDC637BNZ	FDC638APZ
FDC638P	FDC638P_F073	FDC638P_F095
FDC638P_NBAD009	FDC638P_NF073	FDC638P_NL
FDC6392S	FDC6392S_NL	FDC6401N
FDC6401N_NBHS003	FDC6401N_NL	FDC640P
FDC640P_F073	FDC640P_F095	FDC640P_NBAD004A
FDC640P_NL	FDC6420C	FDC642P

FDC642P_F073	FDC642P_F095	FDC642P_NL
FDC642P_SB4N006	FDC6432SH	FDC645N
FDC645N_F073	FDC645N_F095	FDC645N_NL
FDC6506P	FDC6506P_NB4S006A	FDC6506P_NL
FDC653N	FDC653N_F073	FDC653N_F095
FDC653N_NB3E005A	FDC653N_NL	FDC654P
FDC654P_F073	FDC654P_F095	FDC654P_NBGT006
FDC654P_NBGT007	FDC654P_NF073	FDC654P_NL
FDC655AN	FDC655AN_F095	FDC655AN_NL
FDC655BN	FDC655BN_F073	FDC655BN_NBNN007
FDC655BN_NL	FDC655N_NB5E016B	FDC6561AN
FDC6561AN_NB5S007A	FDC6561AN_NL	FDC6561AN_SB5S012
FDC658AP	FDC658P	FDC658P_F095
FDC658P_NB4E009A	FDC658P_NB4E011	FDC658P_NB4E012
FDC658P_NL	FDC6901L	FDFC2P100
FDFC3N108	FDN302P	FDN302P_NL
FDN304P	FDN304PZ	FDN304PZ_NL
FDN304P_NBAD003A	FDN304P_NL	FDN306P
FDN306P_NL	FDN308P	FDN327N
FDN327N_NL	FDN335N	FDN335N_NL
FDN336P	FDN336P_NL	FDN337N
FDN337N_NL	FDN338P	FDN338P_NL
FDN339AN	FDN3400	FDN3401
FDN340P	FDN340P_NL	FDN342P
FDN342P_NL	FDN352AP	FDN352AP_NBAL001
FDN352AP_NL	FDN357N	FDN357N_NL
FDN358P	FDN358P_NL	FDN359AN
FDN359AN_NL	FDN359BN	FDN360P
FDN360P_NBGT003B	FDN360P_NL	FDN361AN
FDN361AN_NL	FDN361BN	FDN371N
FDN372S	FDN5618P	FDN5618P_NL
FDN5618P_SB4N007	FDN5630	FDN5630_NB5N008A
FDN5630_NL	FMB100	FMB200
FMB2222A	FMB2227A	FMB2907A
FMB3904	FMB3906	FMB3946
FMB3946_NB26012	FMB5551	FMB857B
FMBA06	FMBA14	FMBA56
FMBM5401	FMBM5401_SB74001	FMBM5551
FMBM5551_SB16001	FMBS5401	FMBS549
FMBS5551	FMBSA06	FMBSA56
FMMT449	FMMT549	FSB560
FSB560A	FSB619	FSB649
FSB660	FSB660A	FSB6714
FSB6726	FSB749	FSBCW30
FSD4148	MMBF5434	MMBFJ108
MMBTA28	NDC631N	NDC631N_F095
NDC632P	NDC632P_F095	NDC632P_NL
NDC651N	NDC651N_F073	NDC651N_F095
NDC652P	NDC652P_F073	NDC652P_F095
NDC7001C	NDC7002N	NDC7002N_NL

NDC7002N_SB9G007	NDC7003P	NDS331N
NDS331N_D87Z	NDS331N_ND87Z	NDS331N_NL
NDS332P	NDS332P_F080	NDS332P_NL
NDS335N	NDS335N_D87Z	NDS335N_NL
NDS336P	NDS336P_NL	NDS351AN
NDS351AN_NL	NDS351AN_SBNL001	NDS351N
NDS352AP	NDS352AP_NL	NDS355AN
NDS355AN_NB9L007A	NDS355AN_NL	NDS355N
NDS356AP	NDS356AP_NB8L005A	NDS356AP_NL
PB32_BPB003A	SI3442DV_F073	SI3442DV_NF073
SI3442DV_NL	SI3443DV	SI3443DV_F095
SI3454DV_F073	SI3455DV_F073	SI3456DV_F073
SI3456DV_NF073	SI3456DV_NL	SI3457DV
SI3457DV_F073	SI3457DV_F095	SI3457DV_NL