

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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PCN Originator:

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Implementation of change:

Expected 1st Device Shipment Date: 2011/07/26

Earliest Year/Work Week of Changed Product: 3111

Change Type Description: Bond Wire Material Composition, Wafer Diameter

Description of Change (From): Selected products are currently fabricated at Fairchild's facility in South Portland using the 6-inch CS80 line and assembled with 1.5mil gold (Au) bond wire.

Description of Change (To): Selected products will be fabricated at Fairchild's facility in South Portland using the 8-inch CS80 line and assembled with 2mil copper (Cu) bond wire.

Reason for Change : The 6-inch line in South Portland is scheduled to be closed by Q3 2011. 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. Please contact your local Customer Quality Engineer within 30 days of receipt of this notification if you require any additional data or samples. 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.

Qual/REL Plan Number(s): Q20090198

**Qualification :**

All reliability tests defined in the Qualification Plan No. Q20090198 have been completed without failures.

**Results/Discussion for Qual Plan Number(s): Q20090198**

Test: (Autoclave)   Conditions: 100%RH, 121C   Standard: JESD22-A102
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Lot	Device	96-HOURS	Failure Code		
Q20090198AAACLVC	FAN21SV06MPX	0/77			
Q20090198ABACLVC	FAN21SV06MPX	0/77			
Q20090198ACACLVC	FAN21SV06MPX	0/77			
Test: (Charged Device Model ESD)   Conditions: 1000V   Standard: JESD22-C101					
Lot	Device	Results	Failure Code		
Q20090198AACDMC	FAN21SV06MPX	0/3			
Test: (Dynamic Op Life)   Conditions: 125C, 0V   Standard: JESD22-A108					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20090198AADOPLC	FAN21SV06MPX	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
Q20090198AAHTSLC		0/77			
			0/77		
				0/77	
Q20090198ABHTSLC		0/77			
			0/77		
				0/77	
Q20090198ACHTSLC		0/77			
			0/77		
				0/77	
Test: (Highly Accelerated Stress Test)   Conditions: 85%RH, 130C, 0V   Standard: JESD22-A110					
Lot	Device	96-HOURS	Failure Code		
Q20090198AAHAST1C	FAN21SV06MPX	1/45			
Q20090198ABHAST1C	FAN21SV06MPX	0/45			
Q20090198ACHAST1C	FAN21SV06MPX	0/45			
Test: (Human Body Model ESD)   Conditions: 2000V   Standard: JESD22-A114					
Lot	Device	Results	Failure Code		
Q20090198AAHBMC	FAN21SV06MPX	0/3			
Test: (Latch-Up)   Conditions: .3amps   Standard: JESD 78					
Lot	Device	Results	Failure Code		
Q20090198AALUC	FAN21SV06MPX	0/3			
Test: (Precondition)   Conditions:   Standard: JESD22-A113					
Lot	Device	Results	Failure Code		
Q20090198AAPCNL1AC	FAN21SV06MPX	0/211			
Q20090198ABPCNL1AC	FAN21SV06MPX	0/211			
Q20090198ACPCNL1AC	FAN21SV06MPX	0/211			
Test: (Temperature Cycle)   Conditions: -65C, 150C   Standard: JESD22-A104					
Lot	Device	100-CYCLES	500-CYCLES	Failure Code	
Q20090198AATMCL1C	FAN21SV06MPX	0/77			
Q20090198AATMCL1C	FAN21SV06MPX		2/77		
Q20090198ABTMCL1C	FAN21SV06MPX	0/77			
Q20090198ABTMCL1C	FAN21SV06MPX		0/77		
Q20090198ACTMCL1C	FAN21SV06MPX	0/77			
Q20090198ACTMCL1C	FAN21SV06MPX		0/77		

Product Id Description : Fairchild Semiconductor's selected devices. Refer to the attached FSIDs for complete listing.

Affected FSIDs :

FAN21SV04EMPX	FAN21SV04MPX	
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