

Date Created : 2008/05/27
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PCN# : Q2082201

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: 2008/09/17

Earliest Year/Work Week of Changed Product: 0838

Change Type Description: Wafer Diameter

Description of Change (From): Fairchild products currently manufactured using Fairchild's 6-inch class 1, Fab process in South Portland, ME.

Description of Change (To): Products will be manufactured using Fairchild's 8-inch class 1 Fab process in South Portland, ME. Die size, design, geometry, and layout of the affected products remains unchanged. Products manufactured on the 8" line will be fully compliant to all published datasheet specifications and will be completely interchangeable with current product. Quality and reliability will remain at the highest standards already demonstrated with Fairchild's existing products.

Reason for Change : Fairchild Semiconductor is increasing wafer capacity by converting the 6" line to an 8" line Fab in South Portland, ME.

Qual/REL Plan Numbers : Q20080233

Qualification :

All reliability tests outlined in qualification plan Q20080233A successfully meet the requirements for release, qualifying South Portlands 8 inch FS35C, FS35C32B, FS35CB, and FS35BC3B processes for Logic and Switch product families in DQFN, SC70, US8, MicroPak BT, and MicroPak MLP.

Results/Discussion

Test: (Autoclave)

Lot	Device	96-HOURS	Failure Code		
Q20080233AAACLVA	FXLP34P5X	0/77			
Q20080233BAACLVA	FSA2267AL10X	0/77			
Q20080233CAACLVA	NC7SV74K8X	0/77			
Q20080233EAACLVA	FSA2567MPX	0/77			
Test: (High Temperature Storage Life)					
Lot	Device	168-HOURS	1000-HOURS	Failure Code	
Q20080233AAHTSLA	FXLP34P5X	0/77			
Q20080233AAHTSLA	FXLP34P5X		0/77		
Q20080233BAHTSLA	FSA2267AL10X	0/77			
Q20080233BAHTSLA	FSA2267AL10X		0/77		
Q20080233CAHTSLA	NC7SV74K8X	0/77			
Q20080233CAHTSLA	NC7SV74K8X		0/77		
Q20080233DAHTSLA	FSA2567UMX_F113	0/77			
Q20080233DAHTSLA	FSA2567UMX_F113		0/77		
Q20080233EAHTSLA	FSA2567MPX	0/77			
Q20080233EAHTSLA	FSA2567MPX		0/77		
Test: (Static Op Life)					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20080233AASOPL1A	FXLP34P5X	0/77			
			0/77		
				0/77	
Q20080233BASOPL1A	FSA2267AL10X	0/77			
			0/77		
				0/77	
Q20080233CASOPL1A	NC7SV74K8X	0/77			
			0/77		
				0/77	
Test: -65C, 150C (Temperature Cycle)					
Lot	Device	500-CYCLES		Failure Code	
Q20080233AATMCL1A	FXLP34P5X	0/77			
Q20080233BATMCL1A	FSA2267AL10X	0/77			
Q20080233CATMCL1A	NC7SV74K8X	0/77			
Q20080233DATMCL1A	FSA2567UMX_F113	0/77			
Q20080233EATMCL1A	FSA2567MPX	0/77			
Test: 110C (Highly Accelerated Stress Test)					
Lot	Device	264-HOURS	Failure Code		
Q20080233EAHAST2A	FSA2567MPX	0/45			
Test: 130C (Highly Accelerated Stress Test)					
Lot	Device	96-HOURS	Failure Code		
Q20080233AAHAST1A	FXLP34P5X	0/45			
Q20080233BAHAST1A	FSA2267AL10X	0/45			
Q20080233CAHAST1A	NC7SV74K8X	0/45			
Q20080233DAHAST1A	FSA2567UMX_F113	0/45			
Test: MSL(1), PKG(Small), PeakTemp(260c), Cycles(3) (Precondition)					
Lot	Device	Results	Failure Code		
Q20080233AAPCNL1AA	FXLP34P5X	0/276			
Q20080233BAPCNL1AA	FSA2267AL10X	0/276			
Q20080233CAPCNL1AA	NC7SV74K8X	0/353			
Q20080233DAPCNL1AA	FSA2567UMX_F113	0/199			
Q20080233EAPCNL1AA	FSA2567MPX	0/199			

Product Id Description :

Affected FSIDs :

FSA110K8X	FSA110UMX	FSA110UMX_F113
FSA2147K8X	FSA2269L10X	FSA2269L10X_F113
FSA2269TSL10X	FSA2269TSL10X_F113	FSA2269TSUMX
FSA2269TSUMX_F113	FSA2269UMX	FSA2269UMX_F113
FSA2270TUMX	FSA2270TUMX_F113	FSA2271TUMX
FSA6157L6X_F113	FSUSB40L10X	FSUSB40L10X_F113

FSUSB40UMX	FSUSB40UMX_F113	FSUSB42UMX
FSUSB42UMX_F113	FSUSB45L10X	FSUSB45UMX
FSUSB46K8X	FSUSB46L8X_F113	FSUSB46L8X_F130
FXL2SD106BQX	FXL4245MPX	FXL4T245BQX
FXL4TD245BQX	FXL5T244BQX	FXLH42245MPX
NC7NP04K8X	NC7NP04L8X	NC7NP14K8X
NC7NP14L8X	NC7NP34K8X	NC7NP34L8X
NC7SP00L6X	NC7SP00L6X_F087	NC7SP00P5X
NC7SP02CW	NC7SP02L6X	NC7SP02L6X_F087
NC7SP02P5X	NC7SP04L6X	NC7SP04L6X_F087
NC7SP04L6X_F113	NC7SP04P5X	NC7SP05L6X
NC7SP05P5X	NC7SP08L6X	NC7SP08L6X_F087
NC7SP08L6X_F113	NC7SP08P5X	NC7SP125L6X
NC7SP125P5X	NC7SP126L6X	NC7SP126L6X_F113
NC7SP126P5X	NC7SP126P5X_F080	NC7SP14L6X
NC7SP14P5X	NC7SP17L6X	NC7SP17L6X_F113
NC7SP17P5X	NC7SP17P5X_F080	NC7SP32L6X
NC7SP32P5X	NC7SP34L6X	NC7SP34P5X
NC7SP38L6X	NC7SP38P5X	NC7SP74K8X
NC7SP74L8X	NC7SP74L8X_F087	NC7SP74L8X_F113
NC7SP86L6X	NC7SP86P5X	NC7SPU04L6X
NC7SPU04P5X	NC7SV00L6X	NC7SV00L6X_F087
NC7SV00L6X_F113	NC7SV00P5X	NC7SV02L6X
NC7SV02L6X_F113	NC7SV02P5X	NC7SV04L6X
NC7SV04L6X_F087	NC7SV04L6X_F113	NC7SV04P5X
NC7SV05L6X	NC7SV05L6X_F113	NC7SV05P5X
NC7SV08L6X	NC7SV08L6X_F087	NC7SV08L6X_F113
NC7SV08P5X	NC7SV125L6X	NC7SV125P5X
NC7SV125P5X_F080	NC7SV126L6X	NC7SV126P5X
NC7SV14L6X	NC7SV14P5X	NC7SV17L6X
NC7SV17L6X_F113	NC7SV17P5X	NC7SV32L6X
NC7SV32L6X_F087	NC7SV32L6X_F113	NC7SV32L6X_F115
NC7SV32P5X	NC7SV32P5X_F40	NC7SV34L6X
NC7SV34P5X	NC7SV74K8X	NC7SV74L8X
NC7SV74L8X_F087	NC7SV74L8X_F113	NC7SV86L6X
NC7SV86P5X	NC7SVU04L6X	NC7SVU04P5X
NC7WP00K8X	NC7WP00L8X	NC7WP00L8X_F113
NC7WP02K8X	NC7WP02L8X	NC7WP02L8X_F087
NC7WP02L8X_F113	NC7WP08K8X	NC7WP08L8X
NC7WP08L8X_F113	NC7WP125K8X	NC7WP125L8X
NC7WP240K8X	NC7WP240L8X	NC7WP32K8X
NC7WP32L8X	NC7WP32L8X_F113	NC7WP86K8X
NC7WV125K8X		