

Date Created : 2008/06/20  
 Date Issued On : 2008/07/11  
 PCN# : Q2082503

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:

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Implementation of change:  
 Expected 1st Device Shipment Date: 2008/10/11

Earliest Year/Work Week of Changed Product: 0841

Change Type Description: Wafer Diameter

Description of Change (From): Selected Intellimax products currently manufactured using the 6-inch line at Fairchild Semiconductor, South Portland, Maine.

Description of Change (To): Selected Intellimax products will be also manufactured using the 8-inch line at Fairchild Semiconductor, South Portland, Maine.

Reason for Change : Qualification of Fairchild Semiconductor's 8-inch line for increased capacity.

Qual/REL Plan Numbers : Q20080255; Q20080233

Qualification :

The form, fit, and function will not be affected by this change. The Intellimax products will remain at the highest standards.

**Results/Discussion for Qual Plan Number Q20080255**

Test: (Dynamic Op Life)					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20080255AADOPLC	FPF1003	0/77			
			0/77		
				0/77	
Test: -65C, 150C (Temperature Cycle)					
Lot	Device	100-CYCLES	500-CYCLES	Failure Code	

Q20080255BATMCL1C	FPF1005	0/77	
Q20080255BATMCL1C	FPF1005		0/77
<b>Test: 130C (Highly Accelerated Stress Test)</b>			
Lot	Device	96-HOURS	Failure Code
Q20080255BAHAST1C	FPF1005	0/45	
<b>Test: MSL(1), PKG(Small), PeakTemp(260c), Cycles(3) (Precondition)</b>			
Lot	Device	Results	Failure Code
Q20080255BAPCNL1AC	FPF1005	0/122	

### Results/Discussion for Qual Plan Number Q20080233

<b>Test: (Autoclave)</b>			
Lot	Device	96-HOURS	Failure Code
Q20080233AAACLVA	FXLP34P5X	0/77	
Q20080233BAACLVA	FSA2267AL10X	0/77	
Q20080233CAACLVA	NC7SV74K8X	0/77	
Q20080233EAACLVA	FSA2567MPX	0/77	

<b>Test: (High Temperature Storage Life)</b>				
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	

<b>Test: (Static Op Life)</b>					
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	

<b>Test: -65C, 150C (Temperature Cycle)</b>			
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	

<b>Test: 110C (Highly Accelerated Stress Test)</b>			
Lot	Device	264-HOURS	Failure Code
Q20080233EAHAST2A	FSA2567MPX	0/45	

<b>Test: 130C (Highly Accelerated Stress Test)</b>			
Lot	Device	96-HOURS	Failure Code
Q20080233AAHAST1A	FXLP34P5X	0/45	
Q20080233BAHAST1A	FSA2267AL10X	0/45	
Q20080233CAHAST1A	NC7SV74K8X	0/45	
Q20080233DAHAST1A	FSA2567UMX_F113	0/45	

<b>Test: MSL(1), PKG(Small), PeakTemp(260c), Cycles(3) (Precondition)</b>			
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 : Fairchild Semiconductor's selected Intellimax devices currently manufactured using the 6-inch line at Fairchild Semiconductor, South Portland, Maine. Please refer to the affected FSIDs section.

Affected FSIDs :

FPF1005	FPF1006	FPF1007
FPF1008	FPF1009	