

Date Created : 2007/11/26  
Date Issued On : 2007/11/29  
PCN# : Q4074106-A

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: 2008/01/24

Earliest Year/Work Week of Changed Product: 0804

Change Type Description: Wafer Diameter

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

Description of Change (To): Switch product will now be produced on both 6 inch and 8-inch wafer Diameters. Manufacturing will occur in the same 6-inch Class-1 fab currently producing these products. In some cases, new 8 inch equipment will be added to accommodate the 6 to 8 inch processing conversion. Die size, design, geometry, or layout of the affected products remains un-changed. 8-inch products will be fully compliant to all published data sheet specifications and will be completely interchangeable with current 6-inch product. Quality and reliability will remain at the highest standards already demonstrated with Fairchild's existing products.

Reason for Change : Fairchild Semiconductor is adding 8 inch wafer capacity for processing existing switch products currently manufactured using Fairchild's 6-inch, class 1, fab process in South Portland, ME.

Qual/REL Plan Numbers : Q20070399

**Qualification :**

All environmental & mechanical stresses outlined in reliability qualification plan Q20070399 successfully meet the requirements for release, qualifying South Portland's 8 inch FS35C32B fab process for switch products.

**Results/Discussion**

Test: (Autoclave)				
Lot	Device	96-HOURS	Failure Code	
Q20070399AAACL	FSA2267AL10X	0/77		
Q20070399ABACL	FSA2267AL10X	0/77		
Q20070399ACACL	FSA2267AL10X	0/77		
Q20070399BAACL	FSA2268TUMX	0/77		
Q20070399BBACL	FSA2268TUMX	0/77		
Q20070399BCACL	FSA2268TUMX	0/77		

  

Test: (High Temperature Storage Life)				
Lot	Device	168-HOURS	1000-HOURS	Failure Code
Q20070399AAHTSL	FSA2267AL10X	0/77		
Q20070399ABHTSL	FSA2267AL10X		0/77	
Q20070399ACHTSL	FSA2267AL10X	0/77		
Q20070399BAHTSL	FSA2268TUMX	0/77		
Q20070399BBHTSL	FSA2268TUMX	0/77		
Q20070399BCHTSL	FSA2268TUMX	0/77		
Q20070399BCHTSL	FSA2268TUMX		0/77	
Q20070399BCHTSL	FSA2268TUMX		0/77	

  

Test: (Static Op Life)					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20070399AASOPL1	FSA2267AL10X	0/77			
			0/77		
				0/77	
Q20070399ABSOP1		0/77			
			0/77		
				0/77	
Q20070399ACSOP1		0/77			
			0/77		
				0/77	
Q20070399BASOPL1	FSA2268TUMX	0/77			
			0/77		
				0/77	
Q20070399BBSOPL1		0/77			
			0/77		
				0/77	
Q20070399BCSOP1		0/77			
			0/77		
				0/77	

  

Test: -65C, 150C (Temperature Cycle)				
Lot	Device	500-CYCLES	Failure Code	
Q20070399AATMCL1	FSA2267AL10X	0/77		
Q20070399ABTMCL1	FSA2267AL10X	0/77		
Q20070399ACTMCL1	FSA2267AL10X	0/77		
Q20070399BATMCL1	FSA2268TUMX	0/77		
Q20070399BBTMCL1	FSA2268TUMX	0/77		
Q20070399BCTMCL1	FSA2268TUMX	0/77		

  

Test: 130C (Highly Accelerated Stress Test)				
Lot	Device	96-HOURS	Failure Code	
Q20070399AAHAST1	FSA2267AL10X	0/45		
Q20070399ABHAST1	FSA2267AL10X	0/45		
Q20070399ACHAST1	FSA2267AL10X	0/45		
Q20070399BAHAST1	FSA2268TUMX	0/45		
Q20070399BBHAST1	FSA2268TUMX	0/45		
Q20070399BCHAST1	FSA2268TUMX	0/45		

  

Test: MSL(1), PKG(Small), PeakTemp(260c), Cycles(3) (Precondition)				
Lot	Device	Results	Failure Code	
Q20070399AAPCNL1A	FSA2267AL10X	0/276		
Q20070399ABPCNL1A	FSA2267AL10X	0/276		
Q20070399ACPCNL1A	FSA2267AL10X	0/276		
Q20070399BAPCNL1A	FSA2268TUMX	0/276		
Q20070399BBPCNL1A	FSA2268TUMX	0/276		

Q20070399BCPCNL1A	FSA2268TUMX	0/276	
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Product Id Description :

Affected FSIDs :

FSA2156L6X	FSA2267AL10X	FSA2267L10X
FSA2268TUMX	FSA2268UMX	FSA2467MPX
FSA2567MPX	FSA5157L6X	FSHDMI04MTDX
FSSD06BQX	FSUSB30BQX	FSUSB30L10X
FSUSB30UMX	FSUSB31L8X	