

Date Created : 2008/10/28  
Date Issued On : 2008/12/10  
PCN# : Q4084402

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:  
Name: Suico, Charles  
E-mail: Charles.Suico@notes.fairchildsemi.com  
Phone: (408) 822 2175

PCN Originator:  
Name: Kalabkova, Ivana  
E-mail: Ivana.Kalabkova@notes.fairchildsemi.com  
Phone: 408-822-2187

Implementation of change:  
Expected 1st Device Shipment Date: 2009/03/07

Earliest Year/Work Week of Changed Product: 0910

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 : Q20070498

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 - Q20070498**

Test: (Autoclave)   Conditions: 100%RH, 121C   Standard: JESD22-A102				
Lot	Device	Setpoint	Result	Failure Code
Q20070498AAACLVE	FAN5355MP00X	96-HOURS	0/77	
Q20070498ABACLVE		96-HOURS	0/77	
Q20070498ACACLVE		96-HOURS	0/77	
Q20070498BAACLVE	FAN5355UC00X	96-HOURS	0/77	

Test: (Dynamic Op Life)   Conditions: 125C, 5V   Standard: JESD22-A108				
Lot	Device	Setpoint	Result	Failure Code
Q20070498AADOPLE	FAN5355MP00X	168-HOURS	0/77	
		500-HOURS	0/77	
		1000-HOURS	0/77	
Q20070498ABDOPLE		168-HOURS	0/77	
		500-HOURS	0/77	
		1000-HOURS	0/77	
Q20070498BADOPLE	FAN5355UC00X	168-HOURS	0/77	
		500-HOURS	0/77	
		1000-HOURS	0/77	
Test: (High Temperature Storage Life)   Conditions: 150C   Standard: JESD22-A103				
Lot	Device	Setpoint	Result	Failure Code
Q20070498AAHTSLE	FAN5355MP00X	168-HOURS	0/77	
		500-HOURS	0/77	
		1000-HOURS	0/77	
Q20070498ABHTSLE		168-HOURS	0/77	
		500-HOURS	0/77	
		1000-HOURS	0/77	
Q20070498ACHTSLE		168-HOURS	0/77	
		500-HOURS	0/77	
		1000-HOURS	0/77	
Q20070498BAHTSLE	FAN5355UC00X	168-HOURS	0/77	
		500-HOURS	0/77	
		1000-HOURS	0/77	
Test: (Highly Accelerated Stress Test)   Conditions: 85%RH, 130C, 5V   Standard: JESD22-A110				
Lot	Device	Setpoint	Result	Failure Code
Q20070498AAHAST1E	FAN5355MP00X	96-HOURS	0/45	
Q20070498ABHAST1E		96-HOURS	0/45	
Q20070498ACHAST1E		96-HOURS	0/45	
Q20070498BAHAST1E	FAN5355UC00X	96-HOURS	0/45	
Test: (Physical Dimensions)   Conditions:   Standard: JESD22-B100				
Lot	Device	Setpoint	Result	Failure Code
Q20070498BAPHYDE	FAN5355UC00X		0/5	
Test: (Precondition)   Conditions:   Standard: JESD22-A113				
Lot	Device	Setpoint	Result	Failure Code
Q20070498AAPCNL1AE	FAN5355MP00X		0/199	
Q20070498ABPCNL1AE			0/199	
Q20070498ACPCNL1AE			0/199	
Test: (Temperature Cycle)   Conditions: -40C, 125C   Standard: JESD22-A104				
Lot	Device	Setpoint	Result	Failure Code
Q20070498BATMCL2E	FAN5355UC00X	100-CYCLES	0/77	
		500-CYCLES	0/77	
		1000	0/77	
Test: (Temperature Cycle)   Conditions: -65C, 150C   Standard: JESD22-A104				
Lot	Device	Setpoint	Result	Failure Code
Q20070498AATMCL1E	FAN5355MP00X	100-CYCLES	0/77	
		500-CYCLES	0/77	
Q20070498ABTMCL1E		100-CYCLES	0/77	
		500-CYCLES	0/77	
Q20070498ACTMCL1E		100-CYCLES	0/77	
		500-CYCLES	0/77	

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 :

FPF2000	FPF2001	FPF2002
FPF2003	FPF2004	FPF2005
FPF2006	FPF2007	FPF2100
FPF2101	FPF2102	FPF2103

FPF2104	FPF2105	FPF2106
FPF2107	FPF2108	FPF2109
FPF2110	FPF2116	FPF2172
FPF2174		