Date Created : 2007/10/10 Date Issued On : 2007/10/30

PCN# : **Q4074103**

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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PCN Originator: Name: Lam, HH

E-mail: HH.Lam@fairchildsemi.com Phone: 604 6437 211 Ext 2793

Implementation of change:

Expected 1st Device Shipment Date: 2008/01/25

Earliest Year/Work Week of Changed Product: 0806

Change Type Description: Lead Frame Dimensions (Internal and External)

Description of Change (From): Current dual lead frame (433086, 436489, 422170, 422162, 427732)

Description of Change (To): New matrix lead frame (426895Q, 436896Q, 436897Q, 436898Q, 436899Q)

Reason for Change : To set up and qualify QSOP matrix line as an alternative and an eventual replacement for the existing line.

Qual/REL Plan Numbers: Q20060297

All the reliability tests as defined in Q20060297 qualification plan completed with no failure. Therefore, Carsem, QSOP packages with Matrix Leadframe is qualified.

Qualification:

All the reliability tests as defined in Q20060297 qualification plan completed with no failure.

Results/Discussion

Test: (Autoclave)							
Lot	Device	96-HOURS	Failure Code				
Q20060297AAACLV	FAN5236QSCX	0/77					
Q20060297ABACLV	FAN5236QSCX	0/77					
Q20060297ACACLV	FAN5236QSCX	0/77					

Test: (Gate Leakage	e Neg	ative)							
Lot		Device			Results			Fail	ure Code
Q20060297AAGATE-		FAN5236QSCX			0/3				
Q20060297ABGATE-		FAN5236QSCX			0/3				
Q20060297ACGATE-		FAN5236QSCX			0/3				
Test: (Gate Leakag	e Posi	tive)							
Lot		Device			Results		Failure Code		
Q20060297AAGATE+		FAN5236QSCX			0/3				
Q20060297ABGATE+		FAN5236QSCX			0/3				
Q20060297ACGATE+		FAN5236QSCX			0/3				
Test: (High Temper	ature \$	Storage Life)							
Lot	Devic	e	168-HO	URS	500-HOUR	S	1000-HOUR	S	Failure Code
Q20060297AAHTSL	FAN5	236QSCX	0/77						
					0/77				
							0/77		
Q20060297ABHTSL			0/77						
					0/77				
							0/77		
Q20060297ACHTSL			0/77						
					0/77				
							0/77		
Test: (Temperature									
Lot	Devic	e	168-HO	URS	500-HOURS 1000-HOU		S	Failure Code	
Q20060297AATHBT			0/77						
					0/77				
							0/77		
Test: -65C, 150C (T	empe	rature Cycle)							
Lot		Device		100-CY	CLES	500	-CYCLES		Failure Code
Q20060297AATMCL1	F	FAN5236QSCX		0/77					
Q20060297AATMCL1	F	FAN5236QSCX				0/77			
Q20060297ABTMCL1	F	FAN5236QSCX		0/77					
Q20060297ABTMCL1	F	FAN5236QSCX				0/7	0/77		
Q20060297ACTMCL1	F	FAN5236QSCX		0/77					
Q20060297ACTMCL1	F	AN5236QSCX				0/7	7		
Test: MSL(2), PKG((Small), PeakTemp(26	60c), Cy	cles(3)	(Precond	ition)			
Lot		Device			Results F			Fail	ure Code
Q20060297AAPCNL2A		FAN5236QSCX			0/231				
Q20060297ABPCNL2A		FAN5236QSCX			0/154				
Q20060297ACPCNL2A FAN5236QSCX			0/154						

Product Id Description : Change current dual lead frame to matrix lead frame for QSOP 16L/24L/28L assemble in Carsem.

Affected FSIDs:

FAN5234QSC	FAN5234QSCX	FAN5234QSCX_NL
FAN5235QSCX	FAN5236QSC	FAN5236QSCX
FAN5236QSCX_NA3C165	FAN5236QSCX_NA3C207	FAN5236QSCX_NL
FAN5240QSC	FAN5240QSCX	