

Date Created : 2007/11/06
Date Issued On : 2007/11/19
PCN# : Q3073401-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: 2007/12/15

Earliest Year/Work Week of Changed Product: 750

Change Type Description: Assembly Process

Description of Change (From): DAP size from 1.4mm x 1.4mm non-matrix Also detector die size from 24mil x 24mil.

Description of Change (To): DAP size to 2mm x 2.3mm matrix. Also, detector die size to 17mil x 25mil.

Reason for Change : Improve production line efficiency.

Qual/REL Plan Numbers : Q20070337

Passed all tests required

Qualification :

Passed all tests required for qualificaiton

Results/Discussion

Test: (Autoclave)					
Lot	Device	96-HOURS	Failure Code		
Q20070337AAACLV	H11A817C	0/45			
Q20070337ABACLV	H11A817C	0/45			
Q20070337ACACLV	H11A817C	0/45			
Q20070337ADACLV	H11A817C	0/45			

Test: (High Humidity, High Temp, Rev. Bias)					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20070337AAH3TRB	H11A817C	0/45			

			0/45		
				0/45	
Q20070337ABH3TRB		0/45			
			0/45		
				0/45	
Q20070337ACH3TRB		0/45			
			0/45		
				0/45	
Q20070337ADH3TRB		0/45			
			0/45		
				0/45	

Test: (High Temperature Op Life)

Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20070337AAHTOL		0/45			
			0/45		
				0/45	
Q20070337ABHTOL		0/45			
			0/45		
				0/45	
Q20070337ACHTOL		0/45			
			0/45		
				0/45	
Q20070337ADHTOL		0/45			
			0/45		
				0/45	

Test: (High Temperature Reverse Bias)

Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20070337AAHTRB		0/45			
			0/45		
				0/45	
Q20070337ABHTRB		0/45			
			0/45		
				0/45	
Q20070337ACHTRB		0/45			
			0/45		
				0/45	
Q20070337ADHTRB		0/45			
			0/45		
				0/45	

Test: (High Temperature Storage Life)

Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20070337AAHTSL		0/45			
			0/45		
				0/45	
Q20070337ABHTSL		0/45			
			0/45		
				0/45	
Q20070337ACHTSL		0/45			
			0/45		
				0/45	
Q20070337ADHTSL		0/45			
			0/45		
				0/45	

Test: (Low Temperature Storage)

Lot	Device	168-HOURS	500-HOURS	1000	Failure Code
Q20070337AALTS		0/45			
			0/45		
				0/45	
Q20070337ABLTS		0/45			
			0/45		
				0/45	
Q20070337ACLTS		0/45			
			0/45		
				0/45	
Q20070337ADLTS		0/45			
			0/45		

0/45					
Test: (Power Cycle)					
Lot	Device	5000-CYCLES	10000-CYCLES	15000-CYCLES	Failure Code
Q20070337AAPRCL		0/45			
			0/45		
				0/45	
Q20070337ABPRCL		0/45			
			0/45		
				0/45	
Q20070337ACPRCL		0/45			
			0/45		
				0/45	
Q20070337ADPRCL		0/45			
			0/45		
				0/45	
Test: -65C, 150C (Temperature Cycle)					
Lot	Device	100-CYCLES	200-CYCLES	Failure Code	
Q20070337AATMCL1	H11A817C	0/45			
Q20070337AATMCL1	H11A817C		0/45		
Q20070337ABTMCL1	H11A817C	0/45			
Q20070337ABTMCL1	H11A817C		0/45		
Q20070337ACTMCL1	H11A817C	0/45			
Q20070337ACTMCL1	H11A817C		0/45		
Q20070337ADTMCL1	H11A817C	0/45			
Q20070337ADTMCL1	H11A817C		0/45		
Test: MSL(1), PKG(Small), PeakTemp(260c), Cycles(3) (Precondition)					
Lot	Device	Results	Failure Code		
Q20070337AAPCNL1A	H11A817C	0/270			
Q20070337ABPCNL1A	H11A817C	0/270			
Q20070337ACPCNL1A	H11A817C	0/270			
Q20070337ADPCNL1A	H11A817C	0/270			

Product Id Description : 4-pin DIP optocoupler

Affected FSIDs :

FOD617A	FOD617A300	FOD617A300W
FOD617A3S	FOD617A3SD	FOD617AS
FOD617ASD	FOD617AW	FOD617B
FOD617B300	FOD617B300W	FOD617B3S
FOD617B3SD	FOD617BS	FOD617BSD
FOD617BW	FOD617C	FOD617C300
FOD617C300W	FOD617C3S	FOD617C3SD
FOD617CS	FOD617CSD	FOD617CW
FOD617D	FOD617D300	FOD617D300W
FOD617D3S	FOD617D3SD	FOD617DS
FOD617DSD	FOD617DW	FOD814
FOD814300	FOD814300W	FOD8143S
FOD8143SD	FOD814A	FOD814A300
FOD814A300W	FOD814A3S	FOD814A3SD
FOD814AS	FOD814ASD	FOD814AW
FOD814S	FOD814SD	FOD814W
FOD815	FOD815300	FOD815300W
FOD8153S	FOD8153SD	FOD815S
FOD815SD	FOD815W	FOD816
FOD816300	FOD816300W	FOD8163S
FOD8163SD	FOD816S	FOD816SD
FOD816W	FOD817	FOD817300

FOD817300W	FOD8173S	FOD8173SD
FOD8173SD_NL	FOD817A	FOD817A300
FOD817A300W	FOD817A300W_NL	FOD817A300_NL
FOD817A3S	FOD817A3SD	FOD817A3SD_NL
FOD817AS	FOD817ASD	FOD817ASD_NL
FOD817AS_NL	FOD817AW	FOD817B
FOD817B300	FOD817B300W	FOD817B300_NL
FOD817B3S	FOD817B3SD	FOD817BS
FOD817BSD	FOD817BSD_NL	FOD817BW
FOD817C	FOD817C300	FOD817C300W
FOD817C300W_NL	FOD817C300_NL	FOD817C3S
FOD817C3SD		