

Date Created : 2008/03/28
Date Issued On : 2008/04/25
PCN# : Q1081307

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: 2008/07/13

Earliest Year/Work Week of Changed Product: 0828

Change Type Description: Wafer Diameter

Description of Change (From): Selected Rectifier products currently manufactured using the 4-inch line at Fairchild Semiconductor, in Bucheon, Korea.

Description of Change (To): Selected Rectifier products will be manufactured using the 5-inch line at Fairchild Semiconductor, in Bucheon, Korea.

Reason for Change : The Rectifier die diameter will change from 4-inch to 5-inch due to the closure of the 4-inch raw material (supplier) line.

Qual/REL Plan Numbers : Q20080086

Qualification :

The Qualification Plan has passed and met Fairchild reliability performance requirement.

Results/Discussion

Test: (Autoclave)			
Lot	Device	96-HOURS	Failure Code
Q20080086AAACLV	RURD660S9A	0/77	
Q20080086BAACLV	RURD620CCS9A_R4870	0/77	
Q20080086CAACLV	FFB20UP20DN_SB82117	0/77	
Q20080086DAACLV	ISL9R3060P2_SB82074	0/77	
Q20080086EAACLV	RURD4120S9A_SB82080	0/77	

Test: (High Humidity, High Temp, Rev. Bias)					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20080086AAH3TRB	RURD660S9A	0/77			
			0/77		
				0/77	
Q20080086BAH3TRB	RURD620CCS9A_R4870	0/77			
			0/77		
				0/77	
Q20080086CAH3TRB	FFB20UP20DN_SB82117	0/77			
			0/77		
				0/77	
Q20080086DAH3TRB	ISL9R3060P2_SB82074	0/77			
			0/77		
				0/77	
Q20080086EAH3TRB	RURD4120S9A_SB82080	0/77			
			0/77		
				0/77	

Test: (High Temperature Reverse Bias)					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20080086AAHTRB	RURD660S9A	0/77			
			0/77		
				0/77	
Q20080086BAHTRB	RURD620CCS9A_R4870	0/77			
			0/77		
				0/77	
Q20080086CAHTRB	FFB20UP20DN_SB82117	0/77			
			0/77		
				0/77	
Q20080086DAHTRB	ISL9R3060P2_SB82074	0/77			
			0/77		
				0/77	
Q20080086EAHTRB	RURD4120S9A_SB82080	0/77			
			0/77		
				0/77	

Test: (Power Cycle)					
Lot	Device	5000-CYCLES	10000-CYCLES	15000-CYCLES	Failure Code
Q20080086AAPRCL	RURD660S9A	0/77			
			0/77		
				0/77	
Q20080086BAPRCL	RURD620CCS9A_R4870	0/77			
			0/77		
				0/77	
Q20080086EAPRCL	RURD4120S9A_SB82080	0/77			
			0/77		
				0/77	

Test: -55, 150C (Temperature Cycle)				
Lot	Device	500-CYCLES	1000-CYCLES	Failure Code
Q20080086AATMCL3	RURD660S9A	0/77		
Q20080086AATMCL3	RURD660S9A		0/77	
Q20080086BATMCL3	RURD620CCS9A_R4870	0/77		
Q20080086BATMCL3	RURD620CCS9A_R4870		0/77	
Q20080086CATMCL3	FFB20UP20DN_SB82117	0/77		
Q20080086CATMCL3	FFB20UP20DN_SB82117		0/77	
Q20080086DATMCL3	ISL9R3060P2_SB82074	0/77		
Q20080086DATMCL3	ISL9R3060P2_SB82074		0/77	
Q20080086EATMCL3	RURD4120S9A_SB82080	0/77		
Q20080086EATMCL3	RURD4120S9A_SB82080		0/77	

Test: MSL(1), PKG(Large), PeakTemp(245c), Cycles(3) (Precondition)			
Lot	Device	Results	Failure Code
Q20080086CAPCNL1B	FFB20UP20DN_SB82117	0/308	

Test: MSL(1), PKG(Small), PeakTemp(260c), Cycles(3) (Precondition)			
Lot	Device	Results	Failure Code
Q20080086AAPCNL1A	RURD660S9A	0/308	
Q20080086BAPCNL1A	RURD620CCS9A_R4870	0/308	
Q20080086EAPCNL1A	RURD4120S9A_SB82080	0/308	

Test: Medium Size Pkg's (TO-220, D2) (Power Cycle)				
Lot	Device	4000-CYCLES	8572-CYCLES	Failure Code
Q20080086CAPRCL1	FFB20UP20DN_SB82117	0/77		
Q20080086CAPRCL1	FFB20UP20DN_SB82117		0/77	
Q20080086DAPRCL1	ISL9R3060P2_SB82074	0/77		
Q20080086DAPRCL1	ISL9R3060P2_SB82074		0/77	

Product Id Description : Fairchild Semiconductor's selected Rectifier devices currently manufactured using the 4-inch at Fairchild Semiconductor in Bucheon, Korea. Please refer to the list of affected FSIDs.

Affected FSIDs :

FFB20UP20DN	PCRU420D_R4707	PCRU420D_R4707S
RHRD660S9A_SB82141	RHRD660S9A_SB82182	RHRD660S9A_W49010A
RURD620CCS9A_F085	RURD620S9A_S2457	RURD660S9A_SB82111