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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<u>PCN Originator:</u> Name: SONG, HEEYUNG E-mail: HEEYUNG.SONG@fairchildsemi.com Phone: 82-32-680-1216

Implementation of change: Expected 1st Device Shipment Date: 2007/05/21

Earliest Year/Work Week of Changed Product: 0721

Change Type Description: Bond Wire Diameter

Description of Change (From): 1. Die attach method: Two chip die attach 2. Wire size & QTY:20mil *2ea per chip 3. Ass'y site for TO-220: SP, FSSZ Jedec, SHEDCL

Description of Change (To): 1. Die attach method: Dual chip die attach 2. Wire size & QTY:15mil *1ea per chip 3. Ass'y site for TO-220: SP, FSSZ Jedec, SHEDCL, FSSZ none Jedec, Enoch.

Reason for Change : Improvement of productivity for Schottky diodes mounting on TO-220(Non jedec & Jedec type) . Different wire size and QTY of Schotky diodes have made low productivity in current assembly line. Assembly sites for Schottky diodes are also limited due to requiring of multi-chip mounting technology which is two chip mounting on TO-220(Non jedec & Jedec type). So, We align ass'y BOM to other products in the same in-house or subcontracts assembly line for better productivity without any electrical performance shift.

Qual/REL Plan Numbers : Q20060442

Qualification :

The qualification plan is intended to meet our criteria for qualifying an alternative assembly and test site the overall quality and reliability of our products

Results/Discussion

Test: (Autoclave)

Lot	Device		96-HOURS		S		Failure Code	
Q20060442AAACLV	20060442AAACLV MBRP3010NTU		0/77					
Test: (Power Cycle))							
Lot	Device	Device		5000-CYCLES		Failure Code		
Q20060442AAPRCL	MBRP3010NT	MBRP3010NTU		0/77				
Test: (Temperature	Humidity Biased Tes	st)						
Lot	Device	168-HO	URS	500-HOU	RS	1000-HOURS	6 Failure Code	
Q20060442AATHBT	MBRP3010NTU	0/77						
				0/77				
						0/77		
Test: -65C, 150C (1	Cemperature Cycle)							
Lot	Device	Device		200-CYCLES)-CYCLES	Failure Code	
Q20060442AATMCL1 MBRP3010NTU			0/77					
Q20060442AATMCL1 MBRP3010NTU					0/7	7		

Product Id Description : Some Schottky diodes packaged in TO-220(Non jedec & Jedec type) . The products affected by this change are listed below in the "Affected FSIDs" section

Affected FSIDs :

FYP1004DNTU	FYP1004DNTU_NL	FYP1010DNTU
FYP1010DNTU_NL	FYP1045DNTU	FYP1504DNTU
FYP1545DNTU	FYP2004DNTU	FYP2006DNTU
FYP2006DNTU_NL	FYP2010DNTU	FYP2010DNTU_F080
FYP2010DNTU_NL	FYP2045DNTU	MBR20S100CT
MBR20S100CTTU	MBR3030CTTU	MBRP1545NTU
MBRP2045NTU	MBRP2045NTU_NL	MBRP3010NTU
MBRP3010NTU_NL	MBRP3045NTU	MBRP3045NTU_F080
MBRP3045NTU_NL		