Date Created : 2007/12/04 Date Issued On : 2007/12/07 PCN# : Q4074107-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:

Name: Kim, Sangseop

E-mail: Sangseop.Kim@fairchildsemi.com

Phone:

PCN Originator:

Name: Kim, Sangseop

E-mail: Sangseop.Kim@fairchildsemi.com

Phone:

Implementation of change:

Expected 1st Device Shipment Date: 2008/03/12

Earliest Year/Work Week of Changed Product: 8011

Change Type Description: Passivation Material

Description of Change (From): passivation layer without Polyimide coating

Description of Change (To): Polyimide coating will be added on the passivation layer

Reason for Change: Polyimide coating is added to reduce the potential for electrical performance shift due to surface ionic charge.

Qual/REL Plan Numbers: Q20070388

Qualification:

The qual. result of Polyimide addition is good regarding 1000hr.

Results/Discussion

_ot	Device	96-HOURS	Failure Code
Q20070388AAACLV	FSDH321	0/77	
Test: (Gate Leakage N	legative)		
_ot	Device	Results	Failure Code
Q20070388AAGATE-	FSDH321	0/10	
Test: (Gate Leakage P	ositive)		
_ot	Device	Results	Failure Code
Q20070388AAGATE+	FSDH321	0/10	

Devi	ice	168-HOUI	RS	500-HOURS		1000-HOURS	Failure Code
FSD	H321	0/77					
				0/77			
						0/77	
ature	Reverse Bias)					
Devi	ice	168-HOUI	RS	500-HOURS		1000-HOURS	Failure Code
		0/77					
				0/77			
						0/77	
ature	Storage Life)						
Devi	ice	168-HOUI	RS	500-HOURS		1000-HOURS	Failure Code
		0/77					
				0/77			
						0/77	
Hum	idity Biased Te	est)					
Devi	ice	168-HOUI	RS	500-HOURS		1000-HOURS	Failure Code
		0/77					
				0/77			
						0/77	
Tempe	erature Cycle)						
	Device	2	200-CY	CLES	500-	CYCLES	Failure Code
	FSDH321	C)/77				
	FSDH321				0/77		
	rature Devi	Device Pature Storage Life) Device Humidity Biased To Device	Part Part	Pature Reverse Bias Device 168-HOURS 0/77	PSDH321	Device 168-HOURS 500-HOURS 500-HOU	SDH321

Product Id Description:

Affected FSIDs:

FSDH0170RNB	FSDH0265RL	FSDH0265RLD		
FSDH0265RLDX	FSDH0265RLDX_NL	FSDH0265RLD_NL		
FSDH0265RLX	FSDH0265RLX_SB82109	FSDH0265RL_NL		
FSDH0265RN	FSDH0265RN_NL	FSDH0270RNB		
FSDH0370RNB	FSDH321	FSDH321B		
FSDH321L	FSDH321LX	FSDH321LX_NL		
FSDH321Z	FSDH321Z_NL	FSDL0165RL		
FSDL0165RL_NL	FSDL0165RN	FSDL0365RL		
FSDL0365RL_NL	FSDL0365RNB	FSDL321		
FSDL321L	FSDL321L_NL	FSDL321_NL		
FSDM0265RL	FSDM0265RL_NL	FSDM0265RNB		
FSDM0265RNB_NL	FSDM0265RNC	FSDM0265RNC_NL		
FSDM0265RN_NL	FSDM0365RL	FSDM0365RLX		
FSDM0365RL_NL	FSDM0365RN	FSDM0365RNB		
FSDM0365RNC	FSDM0365RN_NL	FSQ0170RNA		
FSQ0270RNA	FSQ0370RNA			