

Date Created : 2008/08/22
Date Issued On : 2008/09/29
PCN# : Q4074815-B

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: 2008/10/29

Earliest Year/Work Week of Changed Product: 0844

Change Type Description: Mold Compound

Description of Change (From): SOT23 package assembly at UTL using non Green mold compound, Sumitomo EME-6710SJ.

Description of Change (To): SOT23 package assembly at UTL using Green mold compound, Sumitomo G600.

Reason for Change : 1) Current mold compound supplier has announced the discontinuance of LSA mold compound Sumitomo EME6710SJ. Based on current run rates there is a potential for a mold compound material shortage if this PCN is not approved within Sept 2008 timeframe. 2) Green initiative by Fairchild Semiconductor. Fairchild Semiconductor is dedicated to being a good corporate citizen. All Fairchild Semiconductor products are 2nd level interconnect lead-free and RoHS compliance. The referenced material changes have been made to provide a 'Full Green' (Halogen Free Flame Retardant) package. For additional details on the corporate wide green initiative please visit our Web site at: <http://www.fairchildsemi.com/company/green/index.html> Manufacturing will occur at the same assembly facilities producing the current non-green products. Package outline drawings of the affected products remain un-changed. Green products will be fully compliant to all published data sheet specifications and will be interchangeable with current non-green product. Quality and reliability will remain at the highest standards already demonstrated with Fairchild's existing products.

Qual/REL Plan Numbers : Q20070425

Qualification :

Qualification Plan Results are as stated in the Qualification Plan # Q20070425.

Results/Discussion for Qual Plan Number - Q20070425

Test: (Flammability Certificate (3)) Conditions: Standard: UL94-0				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AAFLAM	RV4145AN		0/1	
Q20070425BAFLAM	FAN2502S25X		0/1	
Q20070425CAFLAM	MM74C926N		0/1	
Test: (Gate Leakage Negative) Conditions: 155C, -400V Standard: AEC-Q100-006				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AAGATE-	RV4145AN		0/3	
Q20070425BAGATE-	FAN2502S25X		0/3	
Q20070425CAGATE-	MM74C926N		0/3	
Test: (Gate Leakage Positive) Conditions: 155C, 400V Standard: AEC-Q100-006				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AAGATE+	RV4145AN		0/3	
Q20070425BAGATE+	FAN2502S25X		0/3	
Q20070425CAGATE+	MM74C926N		0/3	
Test: (High Temperature Storage Life) Conditions: 150C Standard: JESD22-A103				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AAHTSL	RV4145AN	168-HOURS	0/77	
		1000-HOURS	0/77	
Q20070425BAHTSL	FAN2502S25X	168-HOURS	0/77	
		1000-HOURS	0/77	
Q20070425CAHTSL	MM74C926N	168-HOURS	0/77	
		1000-HOURS	0/77	
Test: (Highly Accelerated Stress Test) Conditions: 85%RH, 110C, Biased V Standard: JESD22-A110				
Lot	Device	Setpoint	Result	Failure Code
Q20070425CAHAST2	MM74C926N	264-HOURS	0/77	
Test: (Highly Accelerated Stress Test) Conditions: 85%RH, 130C, biased V Standard: JESD22-A110				
Lot	Device	Setpoint	Result	Failure Code
Q20070425BAHAST1	FAN2502S25X	96-HOURS	0/77	
Test: (Highly Accelerated Stress Test) Conditions: 85%RH, 130C, biasedV Standard: JESD22-A110				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AAHAST1	RV4145AN	96-HOURS	0/77	
Test: (Moisture Sensitivity) Conditions: Standard: J-STD_020				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AAMSLNL1A	RV4145AN		0/11	
Q20070425BAMSLNL1A	FAN2502S25X		0/11	
Q20070425CAMSLNL1A	MM74C926N		0/11	
Test: (Precondition) Conditions: Standard: JESD22-A113				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AAPCNL1A	RV4145AN		0/308	
Q20070425BAPCNL1A	FAN2502S25X		0/308	
Q20070425CAPCNL1A	MM74C926N		0/308	
Test: (Resistance to Solder Heat) Conditions: Standard: JESD22-B106				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AARSDH	RV4145AN		0/5	
Q20070425BARSDH	FAN2502S25X		0/5	
Q20070425CARSDH	MM74C926N		0/5	
Test: (Static Op Life) Conditions: 150C, Biased V Standard: JESD22-A108				
Lot	Device	Setpoint	Result	Failure Code
Q20070425CASOPL1	MM74C926N	168-HOURS	0/77	
		1000-HOURS	0/77	
Test: (Static Op Life) Conditions: 150C, biased V Standard: JESD22-A108				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AASOPL1	RV4145AN	168-HOURS	4/77	Melted, Evaporated, Or Fused Open
Q20070425BASOPL1	FAN2502S25X	1000-HOURS	0/77	
		168-HOURS	0/77	

		1000-HOURS	0/77	
Test: (Temperature Cycle) Conditions: -65C, 150C Standard: JESD22-A104				
Lot	Device	Setpoint	Result	Failure Code
Q20070425AATMCL1	RV4145AN	100-CYCLES	0/77	
		500-CYCLES	0/77	
Q20070425BATMCL1	FAN2502S25X	100-CYCLES	0/77	
		500-CYCLES	0/77	
Q20070425CATMCL1	MM74C926N	100-CYCLES	0/77	
		500-CYCLES	0/77	

Product Id Description : UTL SOT23 FSID Green EMC.

Affected FSIDs :

FAN2500S25X	FAN2500S26X	FAN2500S27X
FAN2500S285X	FAN2500S28X	FAN2500S30X
FAN2500S33X	FAN2500SX	FAN2501S25X
FAN2501S26X	FAN2501S27X	FAN2501S285X
FAN2501S28X	FAN2502S25X	FAN2502S26X
FAN2502S27X	FAN2502S285X	FAN2502S28X
FAN2502S30X	FAN2502S315X	FAN2502SX
FAN2503S25X	FAN2503S26X	FAN2503S27X
FAN2503S285X	FAN2503S28X	FAN2503S30X
FAN2503S33X	FAN2504S25X	FAN2504S26X
FAN2504S27X	FAN2504S285X	FAN2504S28X
FAN2504S30X	FAN2504S33X	FAN2505S26X
FAN2505S27X	FAN2505S285X	FAN2505S28X
FAN2505S30X	FAN2508S26X	FAN2508S27X
FAN2508S285X	FAN2508S28X	FAN2508SX
FAN2509S26X	FAN2509S27X	FAN2509S285X
FAN2509S28X	FAN2509S30X	FAN2510S25X
FAN2510S26X	FAN2510S27X	FAN2510S285X
FAN2510S28X	FAN2510S30X	FAN2510SX
FAN2511S25X	FAN2511S26X	FAN2511S27X
FAN2511S285X	FAN2511S28X	FAN2511S30X
FAN2512S25X	FAN2512S26X	FAN2512S27X
FAN2512S285X	FAN2512S28X	FAN2512S30X
FAN2512S33X	FAN2512SX	FAN2513S25X
FAN2513S26X	FAN2513S27X	FAN2513S285X
FAN2513S28X	FAN2513S30X	FAN2513S33X
FAN2514S25X	FAN2514S26X	FAN2514S27X
FAN2514S285X	FAN2514S28X	FAN2514S30X
FAN2514S33X	FAN2514SX	FAN2515S25X
FAN2515S26X	FAN2515S27X	FAN2515S285X
FAN2515S28X	FAN2515S30X	FAN2518S25X
FAN2518S26X	FAN2518S27X	FAN2518S28X
FAN2519S26X	FAN2519S27X	FAN2519S285X
FAN2519S28X	FAN2519S30X	FAN2535S26X