Date Created : 2011/05/11 Date Issued On : 2011/06/14

PCN#: P151A

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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PCN Originator:

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Implementation of change:

Expected 1st Device Shipment Date: 2011/09/12

Earliest Year/Work Week of Changed Product: 1138

Change Type Description: Alternate Assembly/Test Location/Qualification

Description of Change (From): 8-lead MDIP and 14-lead MDIP packages assembled and tested in Shenyang and Nantong, China.

Description of Change (To): Adding Bangkok, Thailand as a qualified assembly and test location for 8-lead MDIP and 14-lead MDIP packages. Standardization of product marking with line 1 marked as FSC logo + plant code + bi-weekly date code + trace code and line 2 marked as device ID.

Reason for Change: Adding an alternate assembly and test site for 8-lead MDIP and 14-lead MDIP packages for supply chain improvement. This change will have no impact on product quality, reliability, electrical, visual or mechanical performance and affected products will remain fully compliant to all published specifications. Products incorporating this change may be shipped interchangeably with existing unchanged products. This change is planned to take effect in 90 calendar days from the date of this notification. Please work with your local Fairchild Sales representative to manage your inventory of unchanged product if your evaluation of this change will require more than 90 calendar days. Please contact your local Customer Quality Engineer within 30 days of receipt of this notification if you require any additional data or samples.

Qual/REL Plan Number(s): Q20110001, Q20110047, Q20110049, Q20110080

Qualification:

Bangkok, Thailand is qualified to manufacture MDIP-8L and MDIP-14L package based

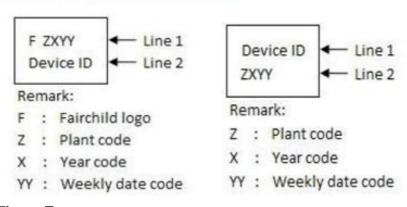
on the successful qualification result of KA358 (8DIP, BSP1) ,KA339 (14DIP, BCH4B), FAN7527BN (8DIP, BCH4B), KA3842B (8DIP, BSP1) and FAN7392N(14DIP) that meet Fairchild reliability requirements.

Change From

Bill of Materials:

Item	MDIP-8L Details	MDIP-14L Details	MDIP-8L/14LDetails
Assembly Site	Shenyang, China	Shenyang, China	Nantong,China
Wire	Au 1.0, 1.2 mil	Au 1.0 mil	Au 1.0 mil
Die Attach	SK-5DK	SK-5DK	Henkel-8200T
Leadframe	Copper	Copper	Copper
Mold Compound	KTMC1000 (1030NFE)	SI-7200DM	KL4000-1T

Existing product marking format:

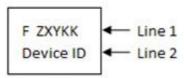


Change To

Bill of Materials:

Item	MDIP-8L/14LDetails	MDIP-8L Details	MDIP-14L Details	
Assembly Site Nantong , China		Bangkok, Thailand	Bangkok, Thailand	
Wire	Au 1.0 mil	Au 0.8 mil	Au 1.0 mil	
Die Attach Henkel-8200T		Ablestik: 2200D	Ablestik: 2200D	
Leadframe Copper		Copper	Copper	
Mold Compound	KL4000-1T	GE- 800 (Nitto)	GE-800 (Nitto)	

Standardization of product marking format:



Remark:

F : Fairchild logo Z : Plant code X : Year code

Y: Bi-Weekly date code KK: Two digit trace code

Results/Discussion for Qual Plan Number(s): Q20110001

Test: (High Temper	rature Op Life) Co	nditions: 125C	Standard:		
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20110001AAHTOL	FAN7527BN	0/77			
			0/77		
				0/77	
Test: (High Temper	rature Storage Life)	Conditions: 15	0C Standard	: JESD22-A103	}
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20110001AAHTSL		0/77			
			0/77		
				0/77	
Test: (Highly Accel	erated Stress Test)	Conditions: 12	5%RH, 130C,	13V Standard	: JESD22-A110
Lot	Device	168-HOURS	500	1000	Failure Code
Q20110001AAHAST1		0/77			
			0/77		
				0/77	
Test: (Temperature	Cycle) Condition	s: -65C, 150C S	Standard: JES	D22-A104	
Lot	Device			00-CYCLES	Failure Code
Q20110001AATMCL1	FAN7527BN	0/77			
Q20110001AATMCL1	FAN7527BN		ic)/77	

Results/Discussion for Qual Plan Number(s): Q20110047

14A 00 40D				
KA3842B	0/77			
		0/77		
			0/77	
				11

Q20110047AAHTSL		0/77				
				0/77		
					0/77	
Test: (Temperature C	Cycle) Conditions: -6	S5C, 150	OC Sta	ındard: JES	SD22-A104	
Lot	Device		100-CYC	CLES	500-CYCLES	Failure Code
Q20110047AATMCL1	KA3842B		0/77			
Q20110047AATMCL1	KA3842B				0/77	
Test: (Temperature F	lumidity Biased Test	Cond	itions: 8	85%RH, 85	C, 18V Standar	d: JESD22-A101
Lot	Device	168-HOL	JRS	500-HOURS	1000-HOURS	Failure Code
Q20110047AATHBT		0/77				
				0/77		
					0/77	

Results/Discussion for Qual Plan Number(s): Q20110049

Гest: (High Temper	ature Op Life) Co		·		
.ot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20110049AAHTOL	FAN7392N	0/77			
			0/77		
				0/77	
Q20110049ABHTOL		0/77			
			0/77		
				0/77	
Q20110049ACHTOL		0/77			
			0/77		
				0/77	
Q20110049ADHTOL		0/77			
			0/77		
				0/77	
Test: (High Temper	ature Storage Life)	Conditions:	150C Standa	rd: JESD22-A103	3
Lot	Device	168-HOURS	•		Failure Code
Q20110049AAHTSL		0/77	2001100110	10001100110	2340
			0/77		
				0/77	
Q20110049ABHTSL		0/77		0,	
			0/77		
				0/77	
Q20110049ACHTSL		0/77			
			0/77		
				0/77	
Q20110049ADHTSL		0/77			
			0/77		
				0/77	
Tasti /I limbly Assala	arata d Ctraca Taat	l Conditions	050/DIL 440C	40\/ Ctorodord	IECDOO A440
Test: (Highly Accele					1
Lot	Device		-HOURS	264-HOURS	Failure Code
Q20110049AAHAST2	FAN7392N	0/7	7		
Q20110049AAHAST2	FAN7392N			0/77	
Q20110049ABHAST2	FAN7392N	0/7	7	0.177	
Q20110049ABHAST2	FAN7392N			0/77	
Q20110049ACHAST2	FAN7392N	0/7	′ /	0 /==	
Q20110049ACHAST2	FAN7392N	0 /=		0/77	
Q20110049ADHAST2	FAN7392N	0/7	1	0/77	
Q20110049ADHAST2	FAN7392N			0/77	
Test: (Temperature	Cycle) Conditions	s: -65C, 150C	Standard: JE	SD22-A104	
Lot	Device	100	0-CYCLES	500-CYCLES	Failure Code
Q20110049AATMCL1	FAN7392N	0/7	77		
Q20110049AATMCL1	FAN7392N			0/77	
Q20110049ABTMCL1	FAN7392N	0/7	7		
Q20110049ABTMCL1	FAN7392N			0/77	
Q20110049ACTMCL1	FAN7392N	0/7	77		
Q20110049ACTMCL1	FAN7392N			0/77	
QZUTTUU49ACTMCLT					ļ
Q20110049ACTMCL1	FAN7392N	0/7	7		

Results/Discussion for Qual Plan Number(s): Q20110080

Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20110080AAHTSL	KA358	0/77			
			0/77		
				0/77	
Q20110080BAHTSL	KA339	0/77			
			0/77		
				0/77	
Test: (Static Op Life	e) Conditions: 12	25C, 30V Standar	d: JESD22-A	108	
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20110080AASOPL1	KA358	0/77			
			0/77		
				0/77	
Q20110080BASOPL1	KA339	0/77			
			0/77		
				0/77	
Test: (Temperature	Cycle) Conditio	ns: -65C, 150C S	Standard: JES	D22-A104	
Lot	Device	100-C	YCLES	500-CYCLES	Failure Code
Q20110080AATMCL1	KA358	0/77			
	KA358			0/77	
Q20110080BATMCL1	KA339	0/77			
Q20110080BATMCL1		0/77		0/77	
Q20110080BATMCL1	KA339 KA339			C, 15V Standar	rd: JESD22-A101
Q20110080BATMCL1 Q20110080BATMCL1	KA339 KA339				d: JESD22-A101 Failure Code
Q20110080BATMCL1 Q20110080BATMCL1 Test: (Temperature	KA339 KA339 Humidity Biased	Test) Conditions	: 85%RH, 850	C, 15V Standar	
Q20110080BATMCL1 Q20110080BATMCL1 Test: (Temperature	KA339 KA339 Humidity Biased Device	Test) Conditions	: 85%RH, 850	C, 15V Standar	
Q20110080BATMCL1 Q20110080BATMCL1 Test: (Temperature	KA339 KA339 Humidity Biased Device	Test) Conditions	: 85%RH, 850 500-HOURS	C, 15V Standar	
Q20110080BATMCL1 Q20110080BATMCL1 Test: (Temperature Lot Q20110080AATHBT	KA339 KA339 Humidity Biased Device	Test) Conditions	: 85%RH, 850 500-HOURS	C, 15V Standar	
	KA339 KA339 Humidity Biased Device KA358	Test) Conditions 168-HOURS 0/77	: 85%RH, 850 500-HOURS	C, 15V Standar	

Product Id Description:

Affected FSIDs:

KA2803B	KA2902	KA2904
KA319	KA324A	KA324
KA331	KA339A	KA339
KA358A	KA358	KA393A
KA393	KA4558	L272AM
L272M	LF353N	LM258N
LM2901N	LM2902N	LM2903N
LM2904N	LM293AN	LM319N
LM324AN	LM324N	LM339AN
LM339N	LM358AN	LM358N
LM393AN	LM393N	LM555CN