



Process Change Notice #1404091

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PCN Date: 4/9/2014		Effective Date: 7/14/2014	
Title: Transition to Rev D for Si824x			
Originator: Ashish Gokhale		Phone: 512 532 5379	Dept: Marketing
Customer Contact: Kathy Haggar		Phone: 512 532 5261	Dept: Sales
PCN Type:			
<input type="checkbox"/> Datasheet	<input type="checkbox"/> Foundry	<input type="checkbox"/> Packing	
<input checked="" type="checkbox"/> Product Revision	<input type="checkbox"/> Assembly	<input type="checkbox"/> Labeling	
<input type="checkbox"/> Discontinuance	<input type="checkbox"/> Test	<input type="checkbox"/> Other	
Last Order Date: Not Applicable			
PCN Details			
Description of Change:			
<p>Silicon Labs, in order to maintain continuity of supply and the same levels of lead time responsiveness and service our customers expect, is pleased to announce a polyimide change for the Si824x products. The change replaces the current polyimide with a new polyimide used as a passivation layer within the package.</p> <p>If you have questions about this PCN, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at www.silabs.com.</p>			
Reason for Change:			
The previous polyimide has been discontinued and replaced with a revised polyimide by the current supplier.			
Impact on Form, Fit, Function, Quality, Reliability:			
There is no impact to form, fit, function, quality or reliability. The new polyimide material supports the same form, fit, functionality, reliability and performance attributes as the previous polyimide material.			
Product Identification:			
Old Product		New Product	
Si8241BB-B-IS1		Si8241BB-D-IS1	
Si8241CB-B-IS1		Si8241CB-D-IS1	
Si8244BB-C-IS1		Si8244BB-D-IS1	
Si8244CB-C-IS1		Si8244CB-D-IS1	
Last Date of Unchanged Product: 7/14/2014			



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Qualification Samples:

Samples available upon request. Please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at www.silabs.com

Specific conditions of acceptance of this change will be considered on a case by case basis if written notice is submitted within 30 days of this notice. To request further data or inquire about this notification, please contact your local Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at www.silabs.com.

In some cases rejection of a change notice may impact Silicon Labs product pricing, delivery, quality, or reliability.

Customer Early Acceptance Sign Off:

Customers may approve early PCN acceptance by completing the information below:

Early Acceptance: Date: _____

 Name: _____

 Company: _____

Email your early Acceptance approval to: katherine.haggard@silabs.com

Qualification Data:

See Appendix A and B.

Appendix A

Si8241 0.5A Audio Driver New PI Qualification Report



W7101F1 Product Qualification Plan and Report Rev. E

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Part Rev D, Vanguard Fabrication, ASECL Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A - Accelerated Environment Stress Tests - 16-NBSOIC							
HAST	JA110 130 °C, 85%RH Vcc=5V, 96 hours	3 lots, N=>25	Q28911	0/80	1	4 lots 0/320	Pass
			Q28920	0/80	1		
			Q28923	0/80	1		
			Q30951	0/80	1, 2		
Temp Cycle	JA104 Cond C: -65°C to 150 °C 500 cycles	3 lots, N=>25	Q29580	0/80	1	4 lots 0/320	Pass
			Q28922	0/80	1		
			Q28925	0/80	1		
			Q30950	0/80	1, 2		
HTSL	JA103 175 °C, 500hr	3 lots, N=>25	Q28912	0/80	1	3 lots 0/240	Pass
			Q28921	0/80	1		
			Q28924	0/80	1		
			Q30952	0/80	1, 2		
Test Group B - Accelerated Lifetime Simulation Tests							
HTOL	JA108 125 °C, Dynamic Vcc=5V, 1000 hours	3 lots, N=>77	Q28439	0/79		3 lots 0/239	Pass
			Q28994	0/80			
			Q28438	0/80			
ELFR	JA108 125 °C, Dynamic Vcc=5V, 48 hours	3 lots, N=>500	Q27625	0/505	2	5 lots 0/3215	Pass
			Q28329	0/800			
			Q28330	0/800			
			Q29430	0/305			
			Q30809	0/805			
Test Group E - Electrical Verification							
ESD-HBM	JA114	1 lot, N=>3	Q27578				2 kV
ESD-CDM	JC101 16-NBSOIC	1 lot, N=>3	Q28031				2.5 kV
Latch Up	JESD78 ±200mA Overvoltage = 7.5V	1 lot, N=>6	Q27576 Q27575	85 C 25 C			Pass

- Notes:
- Parts are Pre-conditioned at MSL2A/260 °C
 - New Polyimide material used

This report applies to the following part numbers:	
Si8241BB-D-IS1	Si8241CB-D-IS1

Approved by: Noel Arguello

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Prepared on: 04-Apr-14

Appendix B

Si8244 4A Audio Driver New PI Qualification Report



W7101F1 Product Qualification Plan and Report Rev. E

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Part Rev D, Vanguard Fabrication, ASE Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A - Accelerated Environment Stress Tests - 16-NBSOIC (ASECL)							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>25	Q28911	0/80	1	4 lots 0/320	Pass
			Q28920	0/80	1		
			Q28923	0/80	1		
			Q30948	0/80	1, 2		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q29580	0/80	1	4 lots 0/320	Pass
			Q28922	0/80	1		
			Q28925	0/80	1		
			Q30947	0/80	1, 2		
HTSL	JA103 175°C, 500hr	3 lots, N=>25	Q28912	0/80	1	4 lots 0/320	Pass
			Q28921	0/80	1		
			Q28924	0/80	1		
			Q30949	0/80	1, 2		
Test Group B - Accelerated Lifetime Simulation Tests							
HTOL	JA108 125°C, Dynamic Vcc=5V, 1000 hours	3 lots, N=>77	Q27679	0/79		3 lots 0/239	Pass
			Q28440	0/80			
			Q28441	0/80			
ELFR	JA108 125°C, Dynamic Vcc=5V, 48 hours	3 lots, N=>500	Q27572	0/510		5 lots 0/3226	Pass
			Q28098	0/812			
			Q28208	0/800			
			Q28959	0/299			
			Q30807	0/805	2		
Test Group E - Electrical Verification							
ESD-HBM	JA114	1 lot, N=>3	Q27578				2 kV
ESD-MM	JA115	1 lot, N=>3	Q27577				200 V
ESD-CDM	JC101	1 lot, N=>3	Q28031				2.5 kV
Latch Up	JESD78 ±200mA Overvoltage = 7.5V	1 lot, N=>6	Q27576	85 C			Pass
			Q27575	25 C			

Notes:

1. Parts are Pre-conditioned at MSL2A/260 °C
2. New Polyimide material used

Approved by: Noel Arguello

1 of 2

Prepared on: 04-Apr-14

Si8244 4A Audio Driver New PI Qualification Report



W7101F1 Product Qualification Plan and Report Rev. E

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Part Rev D, Vanguard Fabrication, ASE Assembly except as noted

Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
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This report applies to the following part numbers:

Si8244BB-D-IS1	Si8244CB-D-IS1
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Approved by: Noel Arguello

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Prepared on: 04-Apr-14