

Process Change Notice #1404093

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PCN Date: 4/9/2014		Effective Date: 7/14/2014					
Title: Transition to Rev D for Si822x							
Originator: Ashish Gokhale	Phor	ne: 512 532 5379	Dept: Marketing				
Customer Contact: Kathy Haggar	Phor	ne: 512 532 5261	Dept: Sales				
PCN Type:							
☐ Datasheet ☐ Fo	undry		Packing				
	sembly		Labeling				
☐ Discontinuance ☐ Te	st		Other				
Last Order Date: Not Applicable							
	PCI	N Details					
Description of Change:							
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 Si822x products. The change replaces the current polyimide with a new polyimide used as a passivation layer within the package. 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 .							
Reason for Change:	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.							



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Product Identification:							
Old product	New product						
Si8220BB-A-IS	Si8220BB-D-IS						
Si8220CB-A-IS	Si8220CB-D-IS						
Si8220DB-A-IS	ODB-A-IS Si8220DB-D-IS						
Si8220BD-A-IS							
Si8220CD-A-IS	Si8220CD-D-IS						
Si8220DD-A-IS	Si8220DD-D-IS						
Si8221CC-A-IS	Si8221CC-D-IS						
Si8221DC-A-IS	Si8221DC-D-IS						
Last Date of Unchanged Product: 7/14/2014							
Qualification Samples:							
•							
samples. A list of Silicon Labs sales representation	t your Silicon Labs sales representatives to order tives 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	e by completing the information below:						
Early Acceptance: Date:							
Name:							
Company:							
Email your early Acceptance approval to: kat	herine.haggar@silabs.com						
Qualification Data:							
Please see Appendix A and B.							



Appendix A

Si8220 2.5A Driver New PI Qualification Report

W7101F1 Product Qualification Plan and Report Rev. E

SILICON LABS The information contained in this document is PROPRIETARY to Silicon Laboratories, Inc. and shall not be reproduced or used in part or whole without Silicon Laboratories' written consent. The document is uncontrolled if printed or electronically saved.

Part Rev D, V	Part Rev D, Vangard Fabrication, ASECL Assembly except as noted						
			Lot ID or FaiVPass or				
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	St at us
Test Group A - A	ccelerated Environment Stres:	Tests - 16-WBS0	DIC				
HAST	JA110		Q29194	0/80	1		
	130°C, 85%RH	3 lots, N=>25	Q29197	0/80	1	4 lots	
	Vcc=5V, 96 hours		Q29509	0/80	1	0/320	
			Q30948	0/80	1, 2		Plass
Temp Cycle	JA104		Q29192	0/80	1		
	Cond C: -65°C to 150°C	3 lots, N=>25	Q29195	0/80	1	4 lots	
	500 cycles		Q29510	0/80	1	0/320	
			Q30947	0/80	1, 2		Pass
HTSL	JA103		Q29193	0/80	1		
	175°C, 500hr	3 lots, N=>25	Q29196	0/80	1	4 lots	
			Q29605	0/80	1	0/320	
			Q30949	0/80	1, 2		Pass
Test Group A - A	ccelerated Environment Stress	Tests - 8-SOIC					
TZAH	JA110		Q28932	0/80	1		
	130°C, 85%RH	3 lots, N=>25	Q28935	0/77	1	4 lots	
	Vcc=5V, 96 hours		Q28938	0/80	1	0/317	
			Q30948	0/80	1, 2		Pass
Temp Cycle	JA104		Q28934	0/80	1		
	Cond C: -65°C to 150°C	3 lots, N=>25	Q28937	0/80	1	3 lots	
	500 cycles		Q28940	0/78	1	0/238	
			Q30947	0/80	1		Pass
HTSL	JA103		Q28933	0/80	1		
	175°C, 500hr	3 lots, N=>25	Q28936	0/80	1	3 lots	
			Q28939	0/80	1	0/240	
			Q30949	0/80	1, 2		Pass
Test Group B - A	ccelerated Lifetime Simulatio	n Tests					
HTOL	JA108		Q27679	0/79			
	125°C, Dynamic	3 lots, N=>77	Q28440	0/80		3 lots	
	Vcc=5V, 1000 hours		Q28441	0/80		0/239	Pass
ELFR	JA108		Q27572	0/510			
	125°C, Dynamic	3 lots, N=>500	Q28098	0/812		5 lots	
	Vcc=5V, 48 hours		Q28208	0/800		0/3226	
			Q28959	0/299			
			Q30807	0/805	2		Pass
	II		(2000)	0,000			1 000



Si8220 2.5A Driver New PI Qualification Report

W7101F1 Product Qualification Plan and Report Rev. E

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Part Rev D, \	Part Rev D, Vangard Fabrication, ASECL Assembly except as noted							
Test Name	Test Condition	Qualification	Start	FaiVPass or End	Notes	Summary	Status	
Test Group E - E	lectrical Verification							
ESD-HBM	JA114	1 lot, N=>3	Q27578				2 kV	
ESD-CDM	JC101 16-WBSOIC	1 lot, N=>3	Q27579				2.5 kV	
ESD-CDM	JC101 16-NBSOIC	1 lot, N=>3	Q28071				2 kV	
Latch Up	JESD78 ±200mA Overvoltage = 7.5V	1 lot, N=>6	Q27576 Q27575	85 C 25 C			Pass	

Motes

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

This report applies to the following part numbers:						
Si8220BB-D-IS Si8220DD-D-IS	S18220CB-D-IS	Si8220DB-D-IS	Si8220BD-D-IS	Si8220CD-D-IS		



Appendix B

Si8221 0.5A Driver New PI Qualification Report

W7101F1 Product Qualification Plan and Report Rev. E

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Part Rev D, V	Part Rev D, Vangard Fabrication, ASECL Assembly except as noted						
Lot ID or Fail/Pass or							
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Status
Test Group A - A	ccelerated Environment Stress	Tests - 8-SOIC					
HAST	JA110		Q28932	0/80	1		
	130°C, 85%RH	3 lots, N=>25	Q28935	0/77	1	4 lots	
	Vcc=5V, 96 hours		Q28938	0/80	1	0/317	
			Q30948	0/80	1, 2		Pass
Temp Cycle	JA104		Q28934	0/80	1		
	Cond C: -65°C to 150°C	3 lots, N=>25	Q28937	0/80	1	3 lots	
	500 cycles		Q28940	0/78	1	0/238	
			Q30947	0/80	1		Pass
HTSL	JA103		Q28933	0/80	1		
	175°C, 500hr	3 lots, N=>25	Q28936	0/80	1	3 lots	
			Q28939	0/80	1	0/240	
			Q30949	0/80	1, 2		Pass
Test Group B - A	ccelerated Lifetime Simulation	n Tests					
HTOL	JA108		Q28439	0/79			
	125°C, Dynamic	3 lots, N=>77	Q28994	0/80		3 lots	
	Vcc=5V, 1000 hours		Q28438	0/80		0/239	Pass
ELFR	JA108		Q27625	0/505			
	125°C, Dynamic	3 lots, N=>500	Q28329	0/800		5 lots	
	Vcc=5V, 48 hours		Q28330	0/800		0/3215	
			Q29430	0/305			
			Q30809	0/805	2		Pass
Test Group E - El	ectrical Verification		-				
ESD-HBM	JA114						
		1 lot, N=>3	Q27578				2 kV
		,					
ESD-CDM	JC101						
	16-NBSOIC	1 lot, N=>3	Q28071				2 kV
	S-NB SOIC	1 00,14-23	Q20071				2 NV
Latch Up	JESD78						
сиссії ор	±200mA	1 lot, N=>6	Q27576	85 C			Pass
	Overvoltage = 7.5V	1 100, 14-20	"				F 033
	Pyervortage - 7.50		Q27575	25 C			

Notes:

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

This report applies to the following part numbers:					
Si8221CC-D-IS	Si8221DC-D-IS				

Approved by: Noel Arguello

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Prepared on: 04-Apr-14