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PCN Date: 5/7/2014			Effective Date: 5/	7/2014
Title: 8-SOIC asse	mbly site addition - ASI	ECL		
Originator: Kyle Beckmeyer			ne: 408-702-1244	Dept: Marketing
			ne: (512) 532-5261	Dept: Sales
PCN Type:				
Datasheet	☐ Four	ndry		Packing
☐ Product Revis	ion 🖂 Asse	mbly] Labeling
Discontinuance	e 🗌 Test] Other
Last Order Date:	Not Applicable.			
		PCN	N Details	
products. ASECL is (UTACTH) and SPE ASECL is an existin and ISO/TS16949. Assembly Site Chair	added to existing assen L Semiconductor (SPEL) g assembly and test site nge: alified supplier for the o	nbly p e for S	roviders United Test ilicon Labs, and is ce	for the 8-SOIC packaged clock and Assembly Center, Thailand ertified to ISO9001, ISO14001, es in 8-pin SOIC package.
Supplier	SPEL (Existing)	UTA	CTH (Existing)	ASECL (New)
	Stamped, Alloy C194,	_	nped, Alloy C194,	Stamped, Matrix-Strip,
Leadframe	Ag-Spot plated	Ag-S	pot plated	Double-Ring Ag-plating
Die Attach	Sumitomo CRM 1076NS	Able	stik 8200T	Hitachi EN4900
Wire bond	1.0 mil Au wire	0.8 r	nil Au wire	0.8 mil Au wire
Mold Compound	Sumitomo G600	-	itomo G600	Hitachi CEL9240
Lead finish	Sn 100 (Matte Tin)	Sn 1	00 (Matte Tin)	Sn 100 (Matte Tin)
Impact on Form, I There is no impact per the listed bill of	ded ASECL to support th Fit, Function, Quality, I on fit, function, quality	Reliab y. MSL buffe	oility: . reliability level cha r products manufact	nged to MSL2A. Form changed ured/assembled at ASECL fully
Product Identifica See Appendix-A fo	tion: r affected part numbers			



	15 1 · 5 = 100 · 1
Last Date of Unchange	ed Product: 5///2014
Qualification Samples	:
	ilable now. Please contact your local Silicon Labs sales representative to of authorized representatives may be found at www.silabs.com
notice is submitted wit notification, please co	acceptance of this change will be considered on a case by case basis if written thin 30 days of this notice. To request further data or inquire about this ntact your local Silicon Labs sales representative. A list of Silicon Labs sales lable at www.silabs.com .
In some cases rejection quality, or reliability.	n of a change notice may impact Silicon Labs product pricing, delivery,
Customer Early Accep	tance Sign Off:
Customers may appro	ve early PCN acceptance by completing the information below:
Early Acceptance:	Date:
	Name:
	Company:
Email your early Acce	ptance approval to: <u>katherine.haggar@silabs.com</u>
Qualification Data:	
Material Environmenta you have questions abo	embly Qualification Report. I Test Reports and MDDS reports are available at www.silabs.com/Quality . If but this notification, please contact your Silicon Labs sales representative. A s representatives is available at www.silabs.com



Appendix A: Lists of Parts Affected

SL12804BSC	SL23EP04SI-1
SL12804BSCT	SL23EP04SI-1H
SL2305BSC-1H	SL23EP04SI-1HT
SL2305BSC-1HT	SL23EP04SI-1T
SL2305NZSC	SL23EP04SI-2
SL2305NZSCT	SL23EP04SI-2H
SL2305NZSI	SL23EP04SI-2HT
SL2305NZSIT	SL23EP04SI-2T
SL2305SC-1	SL23EP05BSC-1
SL2305SC-1H	SL23EP05BSC-1H
SL2305SC-1HT	SL23EP05BSC-1HT
SL2305SC-1T	SL23EP05BSC-1T
SL2305SI-1	SL23EP05SC-1
SL2305SI-1H	SL23EP05SC-1H
SL2305SI-1HT	SL23EP05SC-1HT
SL2305SI-1T	SL23EP05SC-1T
SL23EP04SC-1	SL23EP05SI-1
SL23EP04SC-1H	SL23EP05SI-1H
SL23EP04SC-1HT	SL23EP05SI-1HT
SL23EP04SC-1T	SL23EP05SI-1T
SL23EP04SC-2	
SL23EP04SC-2H	
SL23EP04SC-2HT	
SL23EP04SC-2T	

Appendix B: Qualification Report:

SL12804/SL2305/SL23EP0x Qualification Report

W7101F1 Product Qualification Plan and Report Rev. E

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				Fail/Pass or			
Test Name	Test Condition	Qua lification	Start	End	Notes	Summary	Sta tus
Test Group A - A	ccelerated Environment Stress	: Tests - 8-SOIC					
HAST	JA110		Q28932	0/80	1, 2		
	130°C, 85%RH	3 lots, N=>25	Q28935	0/77	1, 2	3 lots	
	Vcc=5.0V, 96 hours		Q30948	0/80	1, 2	0/237	Pass
Temp Cycle	JA104		Q28934	0/80	1, 2		
	Cond C: -65°C to 150°C	3 lots, N=>25	Q28937	0/80	1, 2	3 lots	
	500 cycles		Q30947	0/80	1, 2	0/240	Pass
HTSL	JA103		Q28933	0/80	1, 2		
	175°C, 500hr	3 lots, N=>25	Q28936	0/80	1, 2	3 lots	
			Q30949	0/80	1, 2	0/240	Pass
Test Group B - A	ccelerated Lifetime Simulation	n Tests					
HTOL	JA108		RDR10-31	0/77	3		
	125°C, Dynamic	3 lots, N=>77	RDR10-27	0/116	3	3 lots	
	Vcc=3.8V, 1000 hours		RDR10-29	0/116	3	0/309	Pass
Test Group E - El	lectrical Verification						
ESD-HBM	JA114						
		1 lot, N=>3	RDR10-27		3		4 kV
		'					
ESD-MM	JA115						
		1 lot, N=>3	QRDR10-27		3		250 V
		1,	20,000,000		Ū		200 0
ESD-CDW	JC101						
	20101	1 lot, N=>3	Q3 1377		3		2 kV
		1 (00, 14-23	Q 1377		,		2 NV
Latch Up	JESD78						
Latch Up	±200mA	1 lot, N=>6					Pass
	Overvoltage = 5,7V	(UC, N=>0					La72
	Overvoltage = 5,7V		RDR10-27	25 C	3	1	

Notes

- 1. Parts are Pre-conditioned at MSL2A/260°C
- 2. Leveraged package family qualification data
- 3. Leveraged die family qualification data

Approved by: Noel Arguello 1 of 2 Prepared on: 07-May-14



SL12804/SL2305/SL23EP0x Qualification Report

W7101F1 Product Qualification Plan and Report Rev. E

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			Lot ID or	FaiVPass or			
Test Name	Test Condition	Qualification	Start	End	Notes	Summary	Sta tus
	This	report applies to the f	ollowing pa	rt numbers:			
SL12804BSC	SL12804BSCT	SL2305BSC-1H		SL2305BSC-1HT		SL2305NZSC	
SL2305NZSCT	SL2305 NZSI	SL2305NZSIT		SL2305SC-1		SL2305SC-1H	
SL2305SC-1HT	SL2305 SC-1T	SL2305SI-1		SL2305SI-1H		SL2305SI-1HT	
SL2305SI-1T	SL23E P045C-1	SL23EP04SC-1H		SL23EP045C-1HT		SL23EP04SC-1T	
SL23EP04SC-2	SL23E P04SC-2 H	SL23EP04SC-2HT		SL23EP049C-2T		SL23EP04SI-1	
SL23EP04SI-1H	SL23E P04SI-1HT	SL23EP04SI-1T		SL23EP04SI-2		SL23EP04SI-2H	
SL23EP04SI-2HT	SL23E P04SI-2T	SL23EP05B5C-1	SL23EP05BSC-1H		SL23EP05BSC-1HT		
SL23EP05B5C-1HT	SL23E P05BSC-1T	SL23EP05SC-1	SL23EP055C-1H		SL23EP05SC-1HT		
SL23EP05SC-1T	SL23E P05SI-1	SL23EP05SI-1H		SL23EP05SI-1F	-T	SL23EP05SI-1	1T

Approved by: Noel Arguello 2 of 2 Prepared on: 07-May-14