



# 170906105 Si86xx 16 WB SOIC UTAC Thailand Assembly Qualification

**PCN Issue Date:** 9/6/2017

**Effective Date:** 12/11/2017

**PCN Type:** Assembly

## Description of Change

Silicon Labs is pleased to announce the successful qualification of UTAC Thailand (UTL) as an additional Assembly site for Si86xx. UTL is an existing assembly site for Silicon Labs and is certified to ISO9001, ISO14001 and ISO/TS16949.

UTL address:

UTAC Thai Limited  
78/1 Moo 5, Wellgrow Industrial Estate  
Bangsamask, Bangpakong  
Chachoengsao 24180  
Thailand

As of the effective date of this PCN, Silicon Labs may assemble from either of the qualified Assembly sites.

## Reason for Change

Adding second source for packaging.

## Impact on Form, Fit, Function, Quality, Reliability

None.

## Product Identification

Existing Part #  
Si8600AD-B-IS  
Si8600AD-B-ISR  
Si8605AD-B-IS  
Si8605AD-B-ISR  
Si8606AD-B-IS  
Si8606AD-B-ISR  
Si8610BD-B-IS  
Si8610BD-B-ISR  
Si8610ED-B-IS  
Si8610ED-B-ISR  
Si8620BD-B-IS  
Si8620BD-B-ISR  
Si8620BT-IS  
Si8620BT-ISR  
Si8620ED-B-IS  
Si8620ED-B-ISR  
Si8620ET-IS  
Si8620ET-ISR  
Si8621BD-B-IS  
Si8621BD-B-ISR  
Si8621BT-IS  
Si8621BT-ISR  
Si8621ED-B-IS  
Si8621ED-B-ISR  
Si8621ET-IS  
Si8621ET-ISR

Si8622BD-B-IS  
Si8622BD-B-ISR  
Si8622BT-IS  
Si8622BT-ISR  
Si8622ED-B-IS  
Si8622ED-B-ISR  
Si8622ET-IS  
Si8622ET-ISR  
Si8630BB-B-IS  
Si8630BB-B-ISR  
Si8630BD-B-IS  
Si8630BD-B-ISR  
Si8630BT-IS  
Si8630BT-ISR  
Si8630ED-B-IS  
Si8630ED-B-ISR  
Si8630ET-IS  
Si8630ET-ISR  
Si8631BB-B-IS  
Si8631BB-B-ISR  
Si8631BD-B-IS  
Si8631BD-B-ISR  
Si8631BT-IS  
Si8631BT-ISR  
Si8631ED-B-IS  
Si8631ED-B-ISR  
Si8631ET-IS  
Si8631ET-ISR  
Si8635BB-B-IS  
Si8635BB-B-ISR  
Si8635BD-B-IS  
Si8635BT-IS  
Si8635BT-ISR  
Si8635ET-IS  
Si8640BB-B-IS  
Si8640BB-B-ISR  
Si8640BD-B-IS  
Si8640BD-B-ISR  
Si8640BT-IS  
Si8640BT-ISR  
Si8640ED-B-IS  
Si8640ED-B-ISR  
Si8640ET-IS  
Si8640ET-ISR  
Si8641BB-B-IS  
Si8641BB-B-ISR  
Si8641BD-B-IS  
Si8641BD-B-ISR  
Si8641BT-IS  
Si8641BT-ISR  
Si8641ED-B-IS  
Si8641ED-B-ISR  
Si8641ET-IS  
Si8641ET-ISR  
Si8642BB-B-IS  
Si8642BD-B-IS  
Si8642BD-B-ISR  
Si8642BT-IS  
Si8642BT-ISR  
Si8642ED-B-IS  
Si8642ED-B-ISR  
Si8642ET-IS  
Si8642ET-ISR  
Si8645BB-B-IS  
Si8645BB-B-ISR  
Si8645BD-B-IS  
Si8645BT-IS

Si8645BT-ISR  
Si8645ET-IS  
Si8645ET-ISR  
Si8650BD-B-IS  
Si8650BD-B-ISR  
Si8650ED-B-IS  
Si8650ED-B-ISR  
Si8651BD-B-IS  
Si8651BD-B-ISR  
Si8651ED-B-IS  
Si8651ED-B-ISR  
Si8652BD-B-IS  
Si8652BD-B-ISR  
Si8652ED-B-IS  
Si8652ED-B-ISR  
Si8655BA-B-IS  
Si8655BA-B-ISR  
Si8655BD-B-IS  
Si8655BD-B-ISR

**Last Date of Unchanged Product:** 12/11/2017

### Qualification Samples

Available upon request.

**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 <http://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:** PCNEarlyAcceptance@silabs.com

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### Qualification Data

Please see attached qualification report.



### Si86xx-B-xx AEC-Q100 Qualification Report

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Part Rev B, Vanguard Fabrication, ASECL Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>Test Group A – Accelerated Environment Stress Tests - 16-SOIC-300mil (ASECL)</b>							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>77	Q029583	0/80	1	3 lots 0/240	Pass
			Q030221	0/80	1		
			Q030222	0/80	1		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q036660	0/80	1	3 lots 0/240	Pass
			Q037270	0/80	1		
			Q040161	0/80	1		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q029586	0/80	1	3 lots 0/240	Pass
			Q030181	0/80	1		
			Q030182	0/80	1		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q029584	0/80	1	3 lots 0/239	Pass
			Q030064	0/79	1		
			Q030161	0/80	1		
<b>Test Group A – Accelerated Environment Stress Tests - 16-SOIC-300mil (UTAC)</b>							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>77	Q040661	0/92	2	3 lots 0/275	Pass
			Q040824	0/91	2		
			Q040773	0/92	2		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q040823	0/91	2	3 lots 0/275	Pass
			Q040663	0/92	2		
			Q040772	0/92	2		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q040774	0/92	2	3 lots 0/275	Pass
			Q040660	0/92	2		
			Q040825	0/91	2		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q040826	0/91	2	3 lots 0/274	Pass
			Q040659	0/92	2		
			Q040775	0/91	2		
<b>Test Group A – Accelerated Environment Stress Tests - 16-QSOP (Unisem)</b>							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>77	Q021939	0/78	1	3 lots 0/238	Pass
			Q030225	0/80	1		
			Q030224	0/80	1		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q036951	0/71	1	3 lots 0/225	Pass
			Q036838	0/80	1		
			Q036937	0/74	1		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q029141	0/80	1	3 lots 0/240	Pass
			Q030178	0/80	1		
			Q030179	0/80	1		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q029483	0/80	1	3 lots 0/240	Pass
			Q030062	0/80	1		
			Q030063	0/80	1		



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Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>Test Group A – Accelerated Environment Stress Tests - 16-SOIC-150mil (ASECL)</b>							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>77	Q029142	0/80	1	3 lots 0/239	Pass
			Q030219	0/79	1		
			Q030218	0/80	1		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q036617	0/85	1	3 lots 0/245	Pass
			Q037270	0/80	1		
			Q040161	0/80	1		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q029145	0/80	1	3 lots 0/240	Pass
			Q030184	0/80	1		
			Q030185	0/80	1		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q029143	0/80	1	3 lots 0/240	Pass
			Q030066	0/80	1		
			Q030165	0/80	1		
<b>Test Group A – Accelerated Environment Stress Tests - 08-SOIC-150mil (ASECL)</b>							
HAST	JA110 130°C, 85%RH Vcc=5V, 96 hours	3 lots, N=>77	Q029478	0/80	1	3 lots 0/239	Pass
			Q030228	0/80	1		
			Q030227	0/79	1		
UHAST	JA110 130°C, 85%RH 96 hours	3 lots, N=>77	Q037171	0/85	1	3 lots 0/255	Pass
			Q037172	0/85	1		
			Q036618	0/85	1		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>77	Q029481	0/80	1	3 lots 0/240	Pass
			Q030175	0/80	1		
			Q030176	0/80	1		
HTSL	JA103 150°C, 1000hr	1 lot, N=>45	Q029480	0/80	1	3 lots 0/240	Pass
			Q030060	0/80	1		
			Q030157	0/80	1		
<b>Test Group B – Accelerated Lifetime Simulation Tests</b>							
HTOL	JA108 T <sub>J</sub> ≥ 125°C, Dynamic Vcc=5V, 1000 hours	3 lots, N=>77	Q029018	0/80		3 lots 0/240	Pass
			Q030163	0/80			
			Q030164	0/80			
LTOL	JA108 -10°C, Dynamic Vcc=5V, 1000 hours	1 lot, N=>77	Q027145	0/80		1 lots 0/80	Pass
ELFR	AEC-Q100-008 T <sub>J</sub> ≥ 125°C, Dynamic Vcc=5V, 48 hours	3 lots, N=>800	Q028786	0/816		3 lots 0/2472	Pass
			Q030286	0/828			
			Q030287	0/828			



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Part Rev B, Vanguard Fabrication, ASECL Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>Test Group C – Package Assembly Integrity Tests - 16-SOIC-300mil (ASECL)</b>							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	479150	0/5		3 lots	Pass
			479916	0/5			
			388266	0/5			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	479150	0/5		3 lots	Pass
			479916	0/5			
			388266	0/5			
Physical Dimensions	JB100	3 lots, N=>10	479150	0/30		3 lots	Pass
			479916	0/30			
			388266	0/30			
Solderability	JB102	1 lot, N=>15	479150	0/10		3 lots	Pass
			479916	0/10			
			388266	0/10			
<b>Test Group C – Package Assembly Integrity Tests - 16-SOIC-300mil (UTAC)</b>							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	796899	0/5		3 lots	Pass
			796900	0/5			
			802562	0/5			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	796899	0/5		3 lots	Pass
			796900	0/5			
			802562	0/5			
Physical Dimensions	JB100	3 lots, N=>10	796899	0/30		3 lots	Pass
			796900	0/30			
			802562	0/30			
Solderability	JB102	1 lot, N=>15	796899	0/10		3 lots	Pass
			796900	0/10			
			802562	0/10			
<b>Test Group C – Package Assembly Integrity Tests - 16-QSOP (Unisem)</b>							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	435630	0/5		3 lots	Pass
			435631	0/5			
			435632	0/5			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	435630	0/5		3 lots	Pass
			435631	0/5			
			435632	0/5			
Physical Dimensions	JB100	3 lots, N=>10	435630	0/30		3 lots	Pass
			435631	0/30			
			435632	0/30			
Solderability	JB102	1 lot, N=>15	435630	0/10		3 lots	Pass
			435631	0/10			
			435632	0/10			



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Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>Test Group C – Package Assembly Integrity Tests - 16-SOIC-150mil (ASECL)</b>							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	479150	0/5		3 lots	Pass
			479916	0/5			
			388266	0/5			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	479150	0/5		3 lots	Pass
			479916	0/5			
			388266	0/5			
Physical Dimensions	JB100	3 lots, N=>10	479150	0/30		3 lots	Pass
			479916	0/30			
			388266	0/30			
Solderability	JB102	1 lot, N=>15	479150	0/10		3 lots	Pass
			479916	0/10			
			388266	0/10			
<b>Test Group C – Package Assembly Integrity Tests - 08-SOIC-150mil (ASECL)</b>							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	388257	0/5		3 lots	Pass
			388258	0/5			
			388259	0/5			
Wire Bond Pull	M-STD-883 Performed post-TC	5 units, N=>30	388257	0/5		3 lots	Pass
			388258	0/5			
			388259	0/5			
Physical Dimensions	JB100	3 lots, N=>10	388257	0/30		3 lots	Pass
			388258	0/30			
			388259	0/30			
Solderability	JB102	1 lot, N=>15	388257	0/10		3 lots	Pass
			388258	0/10			
			388259	0/10			



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Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
<b>Test Group E – Electrical Verification</b>							
ESD-HBM	AEC-Q100-002	1 lot, N=>3	Q028802			6 kV	Class H3A
ESD-CDM	AEC-Q100-011	1 lot, N=>3	Q030340	16-SOIC-300	ASECL	1.5 kV	Class C6
		1 lot, N=>3	Q040890	16-SOIC-300	UTAC	2 kV	Class C6
		1 lot, N=>3	Q028958	16-QSOP	Unisem	2 kV	Class C6
		1 lot, N=>3	Q028957	16-SOIC-150	ASECL	2 kV	Class C6
		1 lot, N=>3	Q028958	08-SOIC-150	ASECL	2 kV	Class C6
Latch Up	AEC-Q100-004 ±100mA Overvoltage = 8.25V	1 lot, N=>6	Q028805	25 °C			Pass
		1 lot, N=>6	Q028804	125 °C			Pass
Electromagnetic Compatibility	SAE J1752	1 lot, N=>1	4911-10				Pass

**Notes:**

1. Parts are Pre-conditioned at MSL 2a @ 260°C
2. Parts are Pre-conditioned at MSL 2 @ 260°C

This report applies to the following part numbers:					
16-SOIC-300mil					
SI8600AD-B-IS	SI8631BD-B-IS	SI8645BD-B-IS	SI8600AD-AS	SI8631BD-AS	SI8645BD-AS
SI8602AD-B-IS	SI8631ED-B-IS	SI8650BD-B-IS	SI8602AD-AS	SI8631ED-AS	SI8650BD-AS
SI8605AD-B-IS	SI8635BB-B-IS	SI8650ED-B-IS	SI8605AD-AS	SI8635BB-AS	SI8650ED-AS
SI8606AD-B-IS	SI8635BD-B-IS	SI8651BD-B-IS	SI8606AD-AS	SI8635BD-AS	SI8651BD-AS
SI8610BD-B-IS	SI8640AB-B-IS	SI8651ED-B-IS	SI8610BD-AS	SI8640AB-AS	SI8651ED-AS
SI8610ED-B-IS	SI8640BB-B-IS	SI8652BD-B-IS	SI8610ED-AS	SI8640BB-AS	SI8652BD-AS
SI8620BD-B-IS	SI8640BD-B-IS	SI8652ED-B-IS	SI8620BD-AS	SI8640BD-AS	SI8652ED-AS
SI8620ED-B-IS	SI8640ED-B-IS	SI8655BA-B-IS	SI8620ED-AS	SI8640ED-AS	SI8655BA-AS
SI8621BD-B-IS	SI8641AB-B-IS	SI8655BD-B-IS	SI8621BD-AS	SI8641AB-AS	SI8655BD-AS
SI8621ED-B-IS	SI8641BB-B-IS	SI8660BD-B-IS	SI8621ED-AS	SI8641BB-AS	SI8660BD-AS
SI8622BD-B-IS	SI8641BD-B-IS	SI8660ED-B-IS	SI8622BD-AS	SI8641BD-AS	SI8660ED-AS
SI8622ED-B-IS	SI8641ED-B-IS	SI8661BD-B-IS	SI8622ED-AS	SI8641ED-AS	SI8661BD-AS
SI8630AB-B-IS	SI8642AB-B-IS	SI8661ED-B-IS	SI8630AB-AS	SI8642AB-AS	SI8661ED-AS
SI8630BB-B-IS	SI8642BB-B-IS	SI8662BD-B-IS	SI8630BB-AS	SI8642BB-AS	SI8662BD-AS
SI8630BD-B-IS	SI8642BD-B-IS	SI8662ED-B-IS	SI8630BD-AS	SI8642BD-AS	SI8662ED-AS
SI8630ED-B-IS	SI8642ED-B-IS	SI8663BD-B-IS	SI8630ED-AS	SI8642ED-AS	SI8663BD-AS
SI8631AB-B-IS	SI8645BB-B-IS	SI8663ED-B-IS	SI8631AB-AS	SI8645BB-AS	SI8663ED-AS
SI8631BB-B-IS			SI8631BB-AS		

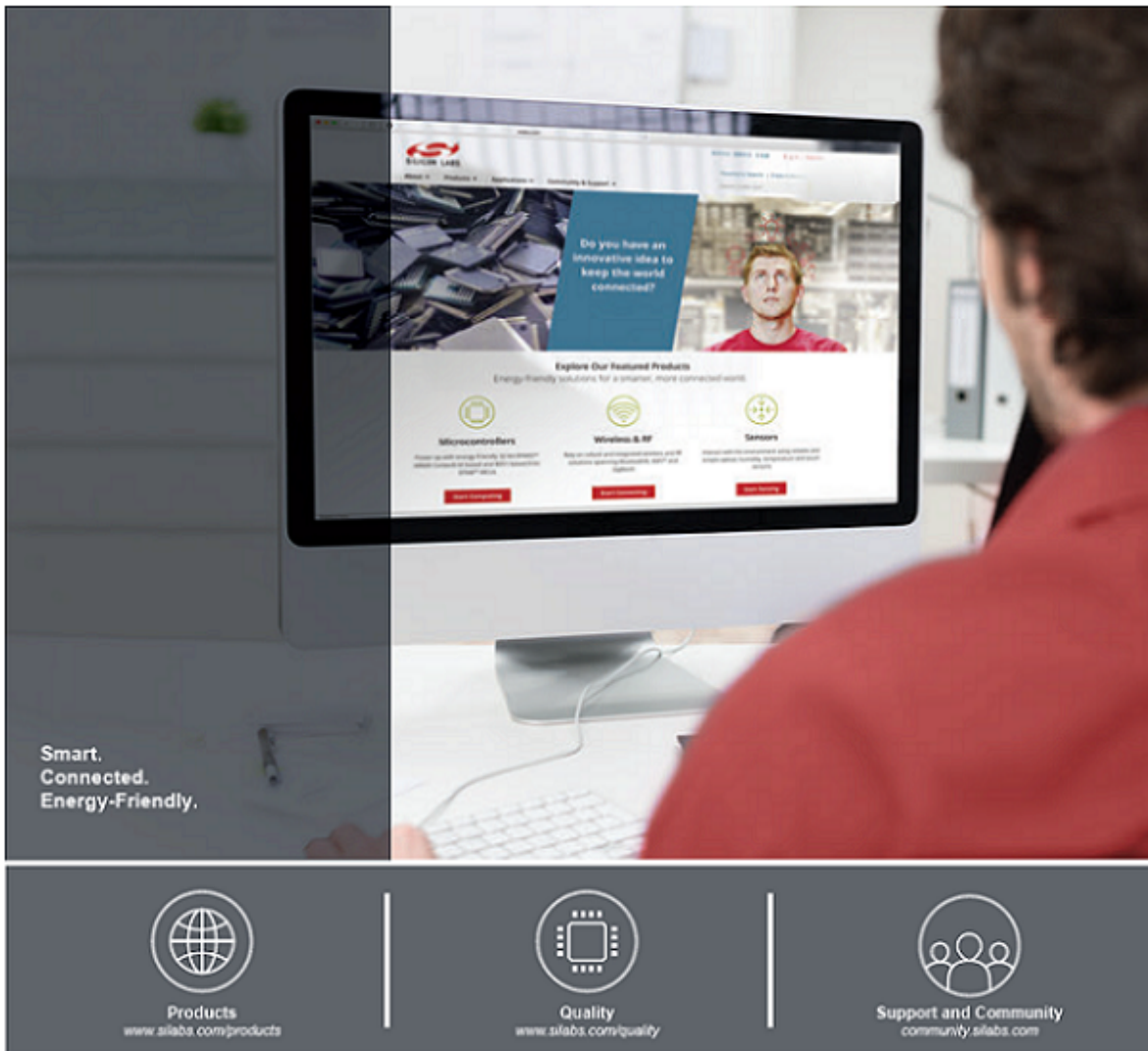




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Part Rev B, Vanguard Fabrication, ASECL Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
This report applies to the following part numbers:							
<b>16-QSOP</b>							
SI8640BA-B-IU	SI8642BA-C-IU	SI8645BB-B-IU	SI8640BA-AU	SI8642BA-AU	SI8645BB-AU		
SI8641BA-B-IU	SI8642BB-B-IU	SI8655BA-B-IU	SI8641BA-AU	SI8642BB-AU	SI8655BA-AU		
SI8641BA-C-IU	SI8642EA-B-IU	SI8655BA-C-IU	SI8641BA-AU	SI8642EA-AU	SI8655BA-AU		
SI8641BB-B-IU	SI8645BA-B-IU	SI8661BB-B-IU	SI8641BB-AU	SI8645BA-AU	SI8661BB-AU		
SI8642BA-B-IU	SI8645BA-C-IU	SI8662BB-B-IU	SI8642BA-AU	SI8645BA-AU	SI8662BB-AU		
<b>16-SOIC-150mil</b>							
SI8605AB-B-IS1	SI8642BB-B-IS1	SI8655BA-C-IS1	SI8605AB-AS1	SI8642BB-AS1	SI8655BA-AS1		
SI8605AC-B-IS1	SI8642BC-B-IS1	SI8655BB-B-IS1	SI8605AC-AS1	SI8642BC-AS1	SI8655BB-AS1		
SI8606AC-B-IS1	SI8642EC-B-IS1	SI8660AB-B-IS1	SI8606AC-AS1	SI8642EC-AS1	SI8660AB-AS1		
SI8630AB-B-IS1	SI8645BA-B-IS1	SI8660BA-B-IS1	SI8630AB-AS1	SI8645BA-AS1	SI8660BA-AS1		
SI8630BB-B-IS1	SI8645BA-C-IS1	SI8660BA-C-IS1	SI8630BB-AS1	SI8645BA-AS1	SI8660BA-AS1		
SI8630BC-B-IS1	SI8645BB-B-IS1	SI8660BB-B-IS1	SI8630BC-AS1	SI8645BB-AS1	SI8660BB-AS1		
SI8630EC-B-IS1	SI8645BC-B-IS1	SI8660BC-B-IS1	SI8630EC-AS1	SI8645BC-AS1	SI8660BC-AS1		
SI8631AB-B-IS1	SI8650AB-B-IS1	SI8660EC-B-IS1	SI8631AB-AS1	SI8650AB-AS1	SI8660EC-AS1		
SI8631BB-B-IS1	SI8650BB-B-IS1	SI8661AB-B-IS1	SI8631BB-AS1	SI8650BB-AS1	SI8661AB-AS1		
SI8631BC-B-IS1	SI8650BC-B-IS1	SI8661BB-B-IS1	SI8631BC-AS1	SI8650BC-AS1	SI8661BB-AS1		
SI8631EC-B-IS1	SI8650EC-B-IS1	SI8661BC-B-IS1	SI8631EC-AS1	SI8650EC-AS1	SI8661BC-AS1		
SI8635BC-B-IS1	SI8651AB-B-IS1	SI8661EC-B-IS1	SI8635BC-AS1	SI8651AB-AS1	SI8661EC-AS1		
SI8640AB-B-IS1	SI8651BB-B-IS1	SI8662AB-B-IS1	SI8640AB-AS1	SI8651BB-AS1	SI8662AB-AS1		
SI8640BB-B-IS1	SI8651BC-B-IS1	SI8662BB-B-IS1	SI8640BB-AS1	SI8651BC-AS1	SI8662BB-AS1		
SI8640BC-B-IS1	SI8651EC-B-IS1	SI8662BC-B-IS1	SI8640BC-AS1	SI8651EC-AS1	SI8662BC-AS1		
SI8640EC-B-IS1	SI8652AB-B-IS1	SI8662EC-B-IS1	SI8640EC-AS1	SI8652AB-AS1	SI8662EC-AS1		
SI8641AB-B-IS1	SI8652BB-B-IS1	SI8663AB-B-IS1	SI8641AB-AS1	SI8652BB-AS1	SI8663AB-AS1		
SI8641BB-B-IS1	SI8652BC-B-IS1	SI8663BB-B-IS1	SI8641BB-AS1	SI8652BC-AS1	SI8663BB-AS1		
SI8641BC-B-IS1	SI8652EC-B-IS1	SI8663BC-B-IS1	SI8641BC-AS1	SI8652EC-AS1	SI8663BC-AS1		
SI8641EC-B-IS1	SI8655BA-B-IS1	SI8663EC-B-IS1	SI8641EC-AS1	SI8655BA-AS1	SI8663EC-AS1		
SI8642AB-B-IS1			SI8642AB-AS1				
<b>08-SOIC-150mil</b>							
SI8600AB-B-IS	SI8620AB-B-IS	SI8621BC-B-IS	SI8600AB-AS	SI8620AB-AS	SI8621BC-AS		
SI8600AC-B-IS	SI8620BB-B-IS	SI8621EC-B-IS	SI8600AC-AS	SI8620BB-AS	SI8621EC-AS		
SI8602AB-B-IS	SI8620BC-B-IS	SI8622AB-B-IS	SI8602AB-AS	SI8620BC-AS	SI8622AB-AS		
SI8602AC-B-IS	SI8620DB-B-IS	SI8622BB-B-IS	SI8602AC-AS	SI8620DB-AS	SI8622BB-AS		
SI8610AB-B-IS	SI8620EB-B-IS	SI8622BC-B-IS	SI8610AB-AS	SI8620EB-AS	SI8622BC-AS		
SI8610BB-B-IS	SI8620EC-B-IS	SI8622EB-B-IS	SI8610BB-AS	SI8620EC-AS	SI8622EB-AS		
SI8610BC-B-IS	SI8621AB-B-IS	SI8622EC-B-IS	SI8610BC-AS	SI8621AB-AS	SI8622EC-AS		
SI8610EC-B-IS	SI8621BB-B-IS	SI8622HC-B-IS	SI8610EC-AS	SI8621BB-AS	SI8622HC-AS		



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