



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

User Registration

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



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



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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
Test Group C – Package Assembly Integrity Tests - 16-SOIC-300mil (ASECL)							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	479150	0/5		3 lots 0/15	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 0/15	Pass
			479916	0/5			
			388266	0/5			
Physical Dimensions	JB100	3 lots, N=>10	479150	0/30		3 lots 0/90	Pass
			479916	0/30			
			388266	0/30			
Solderability	JB102	1 lot, N=>15	479150	0/10		3 lots 0/30	Pass
			479916	0/10			
			388266	0/10			
Test Group C – Package Assembly Integrity Tests - 16-SOIC-300mil (UTAC)							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	796899	0/5		3 lots 0/15	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 0/15	Pass
			796900	0/5			
			802562	0/5			
Physical Dimensions	JB100	3 lots, N=>10	796899	0/30		3 lots 0/90	Pass
			796900	0/30			
			802562	0/30			
Solderability	JB102	1 lot, N=>15	796899	0/10		3 lots 0/30	Pass
			796900	0/10			
			802562	0/10			
Test Group C – Package Assembly Integrity Tests - 16-QSOP (Unisem)							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	435630	0/5		3 lots 0/15	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 0/15	Pass
			435631	0/5			
			435632	0/5			
Physical Dimensions	JB100	3 lots, N=>10	435630	0/30		3 lots 0/90	Pass
			435631	0/30			
			435632	0/30			
Solderability	JB102	1 lot, N=>15	435630	0/10		3 lots 0/30	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
Test Group C – Package Assembly Integrity Tests - 16-SOIC-150mil (ASECL)							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	479150	0/5		3 lots 0/15	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 0/15	Pass
			479916	0/5			
			388266	0/5			
Physical Dimensions	JB100	3 lots, N=>10	479150	0/30		3 lots 0/90	Pass
			479916	0/30			
			388266	0/30			
Solderability	JB102	1 lot, N=>15	479150	0/10		3 lots 0/30	Pass
			479916	0/10			
			388266	0/10			
Test Group C – Package Assembly Integrity Tests - 08-SOIC-150mil (ASECL)							
Wire Bond Shear	AEC-Q100-001	5 units, N=>30	388257	0/5		3 lots 0/15	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 0/15	Pass
			388258	0/5			
			388259	0/5			
Physical Dimensions	JB100	3 lots, N=>10	388257	0/30		3 lots 0/90	Pass
			388258	0/30			
			388259	0/30			
Solderability	JB102	1 lot, N=>15	388257	0/10		3 lots 0/30	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
Test Group E – Electrical Verification							
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:

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

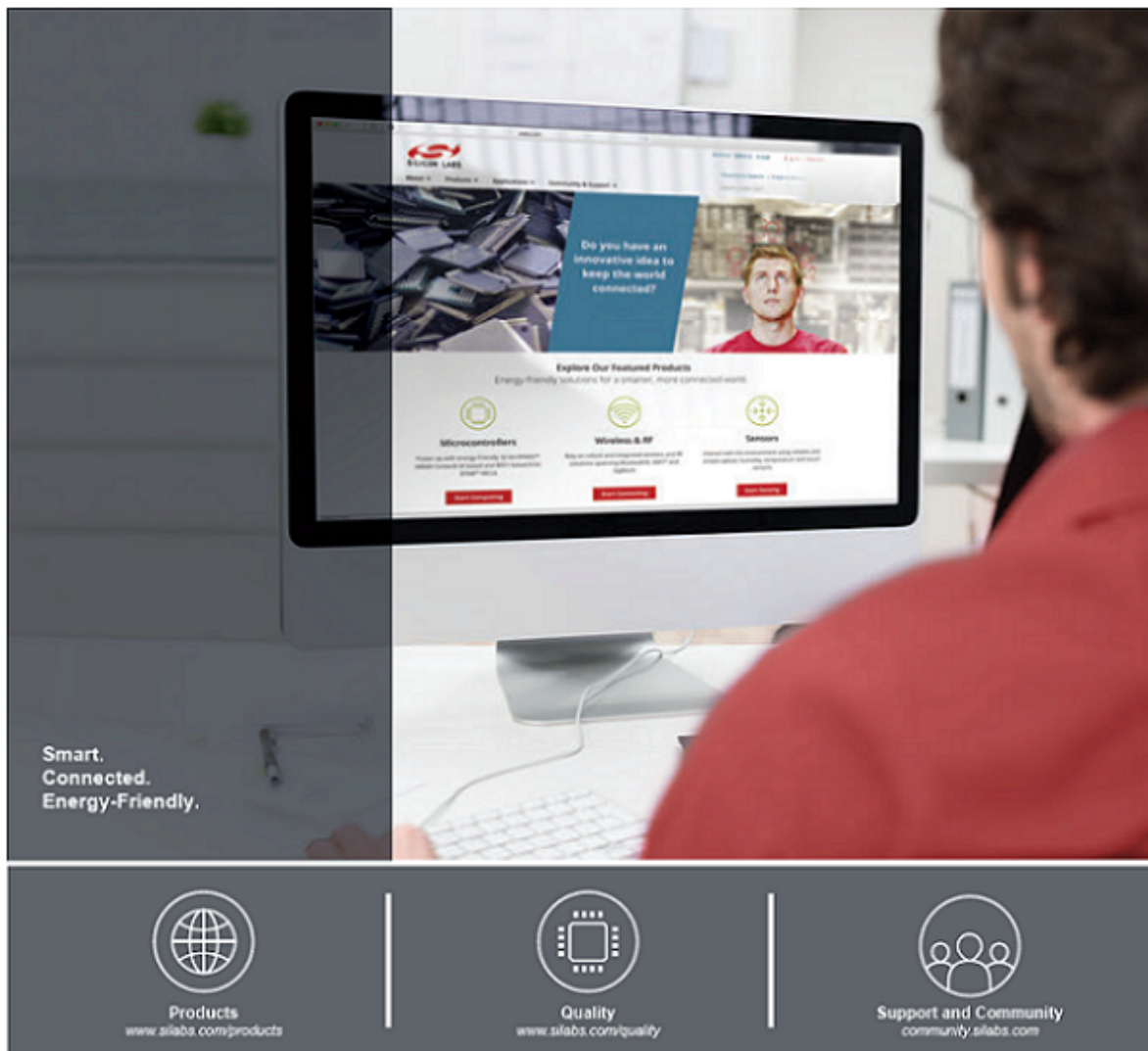
This report applies to the following part numbers:					
16-SOIC-300mil					
SI8600AD-B-IS	SI8631BD-B-IS	SI8645BD-B-IS	SI8600AD-AS	SI8631BD-AS	SI8645BD-AS
SI8602AD-B-IS	SI8631ED-B-IS	SI8650BD-B-IS	SI8602AD-AS	SI8631ED-AS	SI8650BD-AS
SI8605AD-B-IS	SI8635BB-B-IS	SI8650ED-B-IS	SI8605AD-AS	SI8635BB-AS	SI8650ED-AS
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:						
16-QSOP						
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	
16-SOIC-150mil						
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			
08-SOIC-150mil						
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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