



191125673 Additional 10MSOP Leadframe Supplier for Si5350_51

PCN Issue Date: 11/25/2019

Effective Date: 3/2/2020

PCN Type: Assembly

Description of Change

Silicon Labs is pleased to announce the successful qualification of ASM lead frame for Si5350_51 10MSOP package devices. Currently, Si5350_51 10MSOP package devices use Rokko lead frame. Both Rokko & ASM are qualified lead frame suppliers.

There is no change between Rokko & ASM lead frame in terms of material type, properties, dimensions, or a change in other Bill of Materials, Assembly Process, Assembly Flow, etc.

As of the effective date of the PCN, Silicon Labs will continue to fulfill orders using the lead frames from both Rokko & ASM. The package qualification report is attached.

Reason for Change

Lead frame tool is expiring at current lead frame supplier (Rokko) site

Impact on Form, Fit, Function, Quality, Reliability

No impact to Form, Fit, Function, Quality & Reliability

Product Identification

Existing Part #
SI5350-B-ZXT
SI5350A-B-ZXT
SI5350A-B01396-GT
SI5350A-B01396-GTR
SI5350A-B01961-GT
SI5350A-B01961-GTR
SI5350A-B02480-GT
SI5350A-B02480-GTR
SI5350A-B02481-GT
SI5350A-B02481-GTR
SI5350A-B02973-GT
SI5350A-B02973-GTR
SI5350A-B03316-GT
SI5350A-B03316-GTR
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SI5351A-B10522-GTR

Last Date of Unchanged Product: 3/2/2020

Qualification Samples

Available upon request

Customer Response

Lack of acknowledgment of the PCN within 30 days constitutes acceptance of the change, Ref. JEDEC-J-STD-046.

To request further data or inquire about this notification, please contact your Silicon Labs sales representative. A list of Silicon Labs sales representatives is available at <http://www.silabs.com>.

Customers may approve early PCN acceptance by emailing approval, along with PCN # to PCNEarlyAcceptance@silabs.com

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Qualification Data

Qualification report attached



Si5350_51 Qualification Report

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Part Rev B, TSMC Fabrication, UNISEM 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 - 20-Pin 4x4 mm QFN							
HAST	JA110 130°C, 85%RH Vcc=3.6V, 96 hours	3 lots, N=>25	Q026134	0/78	1, 2	3 lots 0/234	Pass
			Q026139	0/78	1, 2		
			Q026210	0/78	1, 2		
Temp Cycle	JA104 Cond C: -85°C to 150°C 500 cycles	3 lots, N=>25	Q026133	0/78	1, 2	3 lots 0/234	Pass
			Q026141	0/78	1, 2		
			Q026209	0/78	1, 2		
HTSL	JA103 150°C, 1000hr	3 lots, N=>25	Q027668	0/25	1, 2	3 lots 0/183	Pass
			Q026138	0/78	1, 2		
			Q026298	0/80	1, 2		
Test Group A – Accelerated Environment Stress Tests - 10-Pin 3x3 mm MSOP							
HAST	JA110 130°C, 85%RH Vcc=3.6V, 96 hours	3 lots, N=>25	Q030047	0/30	1, 2	3 lots 0/84	Pass
			Q031809	0/27	1, 2		
			Q031811	0/27	1, 2		
UHAST	JA118 130°C, 85%RH	3 lots, N=>25	Q045101	0/25	1	3 lots 0/75	Pass
			Q045102	0/25	1		
			Q045103	0/25	1		
Temp Cycle	JA104 Cond C: -85°C to 150°C 500 cycles	3 lots, N=>25	Q045097	0/25	1	3 lots 0/75	Pass
			Q045098	0/25	1		
			Q045099	0/25	1		
HTSL	JA103 150°C, 1000hr	3 lots, N=>25	Q030244	0/28	1, 2	3 lots 0/82	Pass
			Q031707	0/27	1, 2		
			Q031708	0/27	1, 2		
Test Group B – Accelerated Lifetime Simulation Tests							
HTOL	JA108 T _j ≥ 125°C, Dynamic Vcc=3.6V, 1000 hours	3 lots, N=>77	Q029643	0/80	3	3 lots 0/240	Pass
			Q031667	0/80	3		
			Q031666	0/80	3		
LTOL	JA108 T _A = -10°C, Dynamic Vcc=3.6V, 1000 hours	1 lot, N=>32	Q025648	0/35	3	1 lots 0/35	Pass
ELFR	JA108 T _j ≥ 125°C, Dynamic Vcc=3.6V, 48 hours	3 lots, N=>500	Q032874	0/504	3	3 lots 0/1512	Pass
			Q031622	0/504	3		
			Q031623	0/504	3		



Si5350_51 Qualification Report

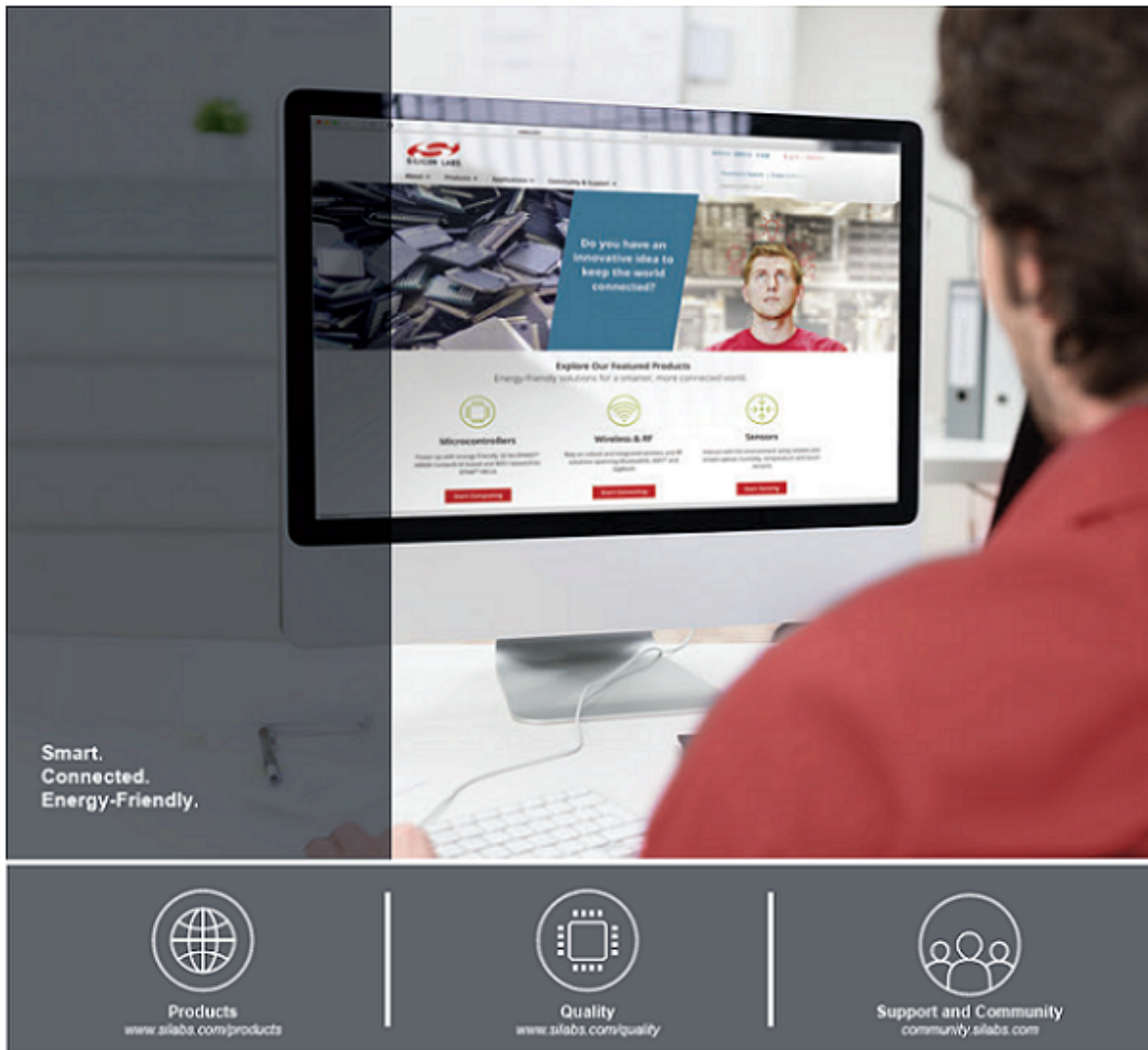
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Part Rev B, TSMC Fabrication, UNISEM Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group E – Electrical Verification							
ESD-HBM	JS-001	1 lot, N=>3	Q029708		3	2.5 kV	Class 2
ESD-CDM	JESD22-C101	1 lot, N=>3	Q032883		3	500 V	Class III
	20-Pin 4x4 mm QFN						
ESD-CDM	JESD22-C101	1 lot, N=>3	Q032882		3	500 V	Class III
	10-Pin 3x3 mm MSOP						
Latch Up	JESD78 ±100mA Overvoltage = 3.8V	1 lot, N=>3	Q029708	85 °C	3		Pass

Notes:

1. Parts are Pre-conditioned at MSL2/260°C
2. Leveraged package family qualification data
3. Leveraged die family qualification data

This report applies to the following part numbers:				
Si5350A-B-GM/R	Si5350B-B-GM/R	Si5350C-B-GM/R	Si5351A-B-GM/R	Si5351B-B-GM/R
Si5351C-B-GM/R	Si5350A-Bxxxxx-GM/R	Si5350B-Bxxxxx-GM/R	Si5350C-Bxxxxx-GM/R	Si5351A-Bxxxxx-GM/R
Si5351B-Bxxxxx-GM/R	Si5351C-Bxxxxx-GM/R	Si5351A-B-GT/R	Si5350A-Bxxxxx-GT/R	Si5350B-Bxxxxx-GT/R
Si5350C-Bxxxxx-GT/R	Si5351A-Bxxxxx-GT/R			



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