



190423523 Si5374/75/76 Adding 2nd Source Capacitor Supplier

PCN Issue Date: 4/23/2019

Effective Date: 7/29/2019

PCN Type: Assembly

Description of Change

Silicon Labs is pleased to announce the successful qualification of 2nd source capacitor supplier for Si5374/75/76 devices. There is no change in the dimension, specification or performance with the new capacitor. As of the effective date of the PCN, Silicon Labs will continue to fulfill Si5374/75/76 orders built with both capacitors. The package qualification report is attached.

Reason for Change

Capacity expansion.

Impact on Form, Fit, Function, Quality, Reliability

There is no change on form, fit, function, quality & reliability of this product

Product Identification

Existing Part #
SI5374B-A-GL
SI5374C-A-GL
SI5375B-A-GL
SI5376B-A-GL

Last Date of Unchanged Product: 7/29/2019

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

User Registration

Register today to create your account on Silabs.com. Your personalized profile allows you to receive technical document updates, new product announcements, "how-to" and design documents, product change notices (PCN) and other valuable content available only to registered users. <http://www.silabs.com/profile>

Qualification Data

Refer to Appendix.



SI5375 Qualification Report

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Part Rev A, TSMC Fabrication, SPIL Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fails/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
HAST	JA110 110°C, 85%RH Voc=2.5V, 264 hours	3 lots, N=25	Q035729	0/25	1, 2	3 lots	Pass
			Q035617	0/25	1, 2		
			Q035730	0/25	1, 2		
IHAST	JA118 130°C, 85%RH 96 hours	3 lots, N=25	Q038165	0/25	1, 2	3 lots	Pass
			Q038166	0/25	1, 2		
			Q038167	0/25	1, 2		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=25	Q043828	0/25	1	3 lots	Pass
			Q043829	0/25	1		
			Q043530	0/25	1		
HTSL	JA103 150°C, 1000hr	3 lots, N=25	Q038168	0/25	1, 2	3 lots	Pass
			Q038169	0/25	1, 2		
			Q038170	0/25	1, 2		
Test Group B – Accelerated Lifetime Simulation Tests							
HTOL	JA106 Tj = 125°C, Dynamic Voc=2.5V, 1000 hours	3 lots, N=77	Q030474	0/80	3	3 lots	Pass
			Q025592	0/80	3		
			Q025904	0/80	3		
ELFR	JA106 Tj = 125°C, Dynamic Voc=2.5V, 48 hours	3 lots, N=500	Q030433	0/502	3	3 lots	Pass
			Q025539	0/511	3		
			Q025187	0/504	3		
Test Group E – Electrical Verification							
ESD-RBM	J0-001	1 lot, N=3	Q029471		3	2.5 kV	Class 2 (700V Clk In)
ESD-COM	JESD02-C101	1 lot, N=3	Q029472		3	250 V	Class II (150V Clk In)
Latch Up	JESD78 ±100mA Overvoltage = 4.2V	1 lot, N=3	Q030317	25 °C	3		Pass



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Part Rev A, TSMC Fabrication, SPIL Assembly except as noted							
Test Name	Test Condition	Qualification	Lot ID or Start	Fails/Pass or End	Notes	Summary	Status
Notes:							
1. Parts are Pre-conditioned at MSL3/260°C							
2. Leveraged package family qualification data							
3. Leveraged die family qualification data							
This report applies to the following part numbers:							
SI5374B-A-BL	SI5374B-A-GL	SI5375B-A-BL	SI5375B-A-GL	SI5376B-A-BL			
SI5376B-A-GL	SI5374C-A-GL						

Qual Report



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