



Process Change Notice #1611221

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PCN Issue Date: 11/22/2016		Effective Date: 2/28/2017																
Title: Si301X-F-XM 3x3QFN Change of Die Attach Film (DAF) material supplier in ASECL																		
PCN Type:																		
<input type="checkbox"/> Datasheet	<input type="checkbox"/> Foundry	<input type="checkbox"/> Packing																
<input type="checkbox"/> Product Revision	<input checked="" type="checkbox"/> Assembly	<input type="checkbox"/> Labeling																
<input type="checkbox"/> Discontinuance	<input type="checkbox"/> Test	<input type="checkbox"/> Other																
Last Order Date: NA																		
PCN Details																		
Description of Change:																		
Silicon Labs is pleased to announce the successful qualification of a new die attach film (DAF) supplier, HENKEL, as part of a new BOM for Si301X-F-XM (3x3 QFN) devices in ASECL assembly site.																		
<table border="1"> <thead> <tr> <th>Item</th> <th>Current DAF</th> <th>Proposed new DAF</th> </tr> </thead> <tbody> <tr> <td>Material name</td> <td>EM-550-P-H</td> <td>ATB-125HA2</td> </tr> <tr> <td>Supplier</td> <td>Nitto</td> <td>Henkel</td> </tr> <tr> <td>Liner</td> <td>38um</td> <td>38um</td> </tr> <tr> <td>Die attach film</td> <td>25um</td> <td>25um</td> </tr> </tbody> </table>				Item	Current DAF	Proposed new DAF	Material name	EM-550-P-H	ATB-125HA2	Supplier	Nitto	Henkel	Liner	38um	38um	Die attach film	25um	25um
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Material name	EM-550-P-H	ATB-125HA2																
Supplier	Nitto	Henkel																
Liner	38um	38um																
Die attach film	25um	25um																
Reason for Change:																		
Current supplier, NITTO, will be discontinuing the production of die attach film, EM series, in Q1'17. This PCN is required to qualify a new supplier for die attach film.																		
Impact on Form, Fit, Function, Quality, Reliability:																		
There is no impact on form, fit, function, quality and reliability. The Si301X-F-XM devices manufactured/assembled using the new die attach film will fully comply with datasheet parameters and quality levels.																		
Product Identification:																		
<table border="1"> <thead> <tr> <th colspan="2">Affected Device</th> </tr> </thead> <tbody> <tr> <td>Si3011-F-FM</td> <td>Si3011-F-FMR</td> </tr> <tr> <td>Si3018-F-FM</td> <td>Si3018-F-FMR</td> </tr> <tr> <td>Si3019-F-GM</td> <td>Si3019-F-GMR</td> </tr> <tr> <td>Si3019-F-FM</td> <td>Si3019-F-FMR</td> </tr> </tbody> </table>				Affected Device		Si3011-F-FM	Si3011-F-FMR	Si3018-F-FM	Si3018-F-FMR	Si3019-F-GM	Si3019-F-GMR	Si3019-F-FM	Si3019-F-FMR					
Affected Device																		
Si3011-F-FM	Si3011-F-FMR																	
Si3018-F-FM	Si3018-F-FMR																	
Si3019-F-GM	Si3019-F-GMR																	
Si3019-F-FM	Si3019-F-FMR																	
Last Date of Unchanged Product: 2/28/2017																		
Qualification Samples:																		
Available upon request. Please contact your local Silicon Labs sales representative to order samples.																		



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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 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: katherine.hagggar@silabs.com

Qualification Data:

Please see Appendix.

Appendix

Si301x 20-QFN-3x3 ASECL Qualification Report



W7101F1 - Product Qualification Report Record Rev. 1

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Part Rev F, VIS Fabrication, ASECL Assembly							
Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
Test Group A – Accelerated Environment Stress Tests							
HAST	JA110 130°C, 85%RH Vcc=3.6V, 96 hours	3 lots, N=>25	Q029292	0/77	2		
			Q029359	0/77	2	3 lots	Pass
			Q029318	0/77	2	0/231	
UHAST	JA118 130°C, 85%RH 96 hours	3 lots, N=>25	Q040291	0/77	1		
			Q040292	0/77	1	3 lots	Pass
			Q040293	0/77	1	0/231	
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q040318	0/77	1		
			Q040319	0/77	1	3 lots	Pass
			Q040320	0/77	1	0/231	
HTSL	JA103 150°C, 1000hr	3 lots, N=>25	Q029295	0/77	2		
			Q029299	0/77	2	3 lots	Pass
			Q029303	0/77	2	0/231	

Notes:

1. Parts are Pre-conditioned at MSL2/260°C
2. Parts are Pre-conditioned at MSL1/260°C

This report applies to the following part numbers:
SI3011-F-FM
SI3018-F-FM
SI3019-F-FM
SI3019-F-GM