



Process Change Notice #1408221

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PCN Date: 8/22/2014		Effective Date: 11/27/2014	
Title: Si3217x-C Capacity Expansion through the addition of Vanguard Fab			
Originator: Brad Seegmiller		Phone: 512-532-5724	Dept: APS Marketing
Customer Contact: Kathy Haggar		Phone: 512-532-5261	Dept: Sales
PCN Type:			
<input type="checkbox"/> Datasheet	<input checked="" type="checkbox"/> Foundry	<input type="checkbox"/> Packing	
<input type="checkbox"/> Product Revision	<input type="checkbox"/> Assembly	<input type="checkbox"/> Labeling	
<input type="checkbox"/> Discontinuance	<input type="checkbox"/> Test	<input type="checkbox"/> Other	
Last Order Date: Not Applicable			
PCN Details			
Description of Change:			
Silicon Labs is pleased to announce the addition of Vanguard International Semiconductor (VIS) as a second wafer fab for the high voltage die used in the Si3217x-C product family of single-channel ProSLIC devices.			
There are no changes in product fit, function, quality, reliability or specifications as a result of sourcing wafers from Vanguard.			
No datasheet changes have occurred. No hardware or software changes are required.			
After the effective date, Silicon Labs will schedule and fulfill orders from both Telefunken and Vanguard high voltage fabs.			
Reason for Change:			
Increase production capacity and reduce lead time.			
Impact on Form, Fit, Function, Quality, Reliability:			
No change to fit, function, quality or reliability. The form could contain either the Telefunken or the Vanguard high voltage die.			
Product Identification:			
Si32170-C-FM1	Si32170-C-FM1R	Si32170-C-GM1	Si32170-C-GM1R
Si32171-C-FM1	Si32171-C-FM1R	Si32171-C-GM1	Si32171-C-GM1R
Si32172-C-FM1	Si32172-C-FM1R	Si32172-C-GM1	Si32172-C-GM1R
Si32173-C-FM1	Si32173-C-FM1R	Si32173-C-GM1	Si32173-C-GM1R
Si32174-C-FM1	Si32174-C-FM1R	Si32174-C-GM1	Si32174-C-GM1R
Si32175-C-FM1	Si32175-C-FM1R	Si32175-C-GM1	Si32175-C-GM1R
Si32176-C-FM1	Si32176-C-FM1R	Si32176-C-GM1	Si32176-C-GM1R
Si32177-C-FM1	Si32177-C-FM1R	Si32177-C-GM1	Si32177-C-GM1R
Last Date of Unchanged Product: 11/27/2014			



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Qualification Samples:

Samples of parts manufactured in Vanguard are available upon request. Please ensure that your sales or distribution representative understands that you are requesting parts specifically from the Vanguard fab.

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.haggard@silabs.com

Qualification Data:

Please see the attached Qualification Report below.

Si3217x-C Qualification Report



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Part Rev C, Vanguard Fabrication, ASEKR Assembly							
Test Name	Test Condition	Qualification	Lot ID	Fail/Pass	Notes	Summary	Status
Test Group A - Accelerated Environment Stress Tests							
HAST	JA110 110°C, 85%RH Vcc=3.6V, 264 hours	3 lots, N=>25	Q36012	0/30	1	3 lots 0/90	Pass
			Q35961	0/30	1		
			Q35884	0/30	1		
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	3 lots, N=>25	Q34970	0/29	1	3 lots 0/89	Pass
			Q34969	0/30	1		
			Q34209	0/30	1		
HTSL	JA103 150°C, 1000hr	3 lots, N=>25	Q34968	0/29	1	3 lots 0/89	Pass
			Q34967	0/30	1		
			Q34793	0/30	1		
Test Group B - Accelerated Lifetime Simulation Tests							
HTOL	JA108 125°C, Dynamic Vcc=3.6V, 1000 hours	3 lots, N=>77	Q34933	0/84		3 lots 0/244	Pass
			Q34746	0/77			
			Q34934	0/83			
LTOL	JA108 -10°C, Dynamic Vcc=3.6V, 1000 hours	1 lot, N=>32	Q35041	0/38		1 lots 0/38	Pass
ELFR	JA108 125°C, Dynamic Vcc=3.6V, 48 hours	3 lots, N=>500	Q35670	0/517		3 lots 0/1560	Pass
			Q35660	0/520			
			Q35639	0/523			
Test Group E - Electrical Verification							
ESD-HBM	JA114	1 lot, N=>3	Q34723				±3000 V
ESD-CDM	JC101	1 lot, N=>3	Q34724				±1000 V
Latch Up	JESD78 ±200mA	1 lot, N=>6	Q34726	25 °C			Pass

Notes:

- Parts are Pre-conditioned at MSL3/260 °C

This report applies to the following part numbers:			
Si32170-C-FM1	Si32170-C-FM1R	Si32170-C-GM1	Si32170-C-GM1R
Si32171-C-FM1	Si32171-C-FM1R	Si32171-C-GM1	Si32171-C-GM1R
Si32172-C-FM1	Si32172-C-FM1R	Si32172-C-GM1	Si32172-C-GM1R
Si32173-C-FM1	Si32173-C-FM1R	Si32173-C-GM1	Si32173-C-GM1R
Si32174-C-FM1	Si32174-C-FM1R	Si32174-C-GM1	Si32174-C-GM1R
Si32175-C-FM1	Si32175-C-FM1R	Si32175-C-GM1	Si32175-C-GM1R
Si32176-C-FM1	Si32176-C-FM1R	Si32176-C-GM1	Si32176-C-GM1R
Si32177-C-FM1	Si32177-C-FM1R	Si32177-C-GM1	Si32177-C-GM1R