



Process Change Notice #1602081

User Registration

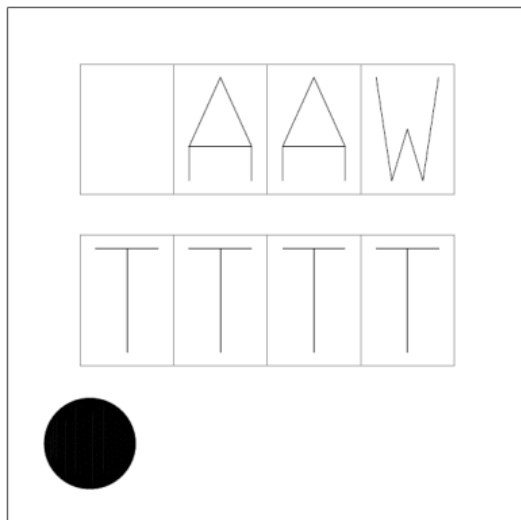
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PCN Date: 2/8/2016		Effective Date: 5/12/2016	
Title: TS3310 Top Mark and Datasheet change			
Originator: Rick Bye		Phone: 512-532-5740	Dept: IoT Marketing
Customer Contact: Kathy Haggar		Phone: 512-532-5261	Dept: Sales
PCN Type:			
<input checked="" type="checkbox"/> Datasheet	<input type="checkbox"/> Foundry	<input type="checkbox"/> Packing	
<input type="checkbox"/> Product Revision	<input checked="" type="checkbox"/> Assembly	<input checked="" 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:			
The top marking on the TS3310 package has been changed from "AAW" to "3310". This top mark change is documented in a new revision, 1.1, of the TS3310 datasheet. Other changes to the revised datasheet are:			
<ul style="list-style-type: none"> • Increase V_{IN} (max) to 5.0V. • Increase the recommended value of C_{STORE}, to be 22μF for circuit A, or 2.2μF for circuit B. • Updated package outline drawing (dimensions unchanged, slightly different pin appearance). 			
Reason for Change:			
The top mark was changed to be user readable and to be compatible with other TS331x devices. The C_{STORE} value was increased to prevent the possibility of V_{STORE} exceeding V_{PROG} by more than the 3% maximum specified in the datasheet when V_{IN} approaches V_{STORE} . V_{IN} (max) was increased to reflect the true capabilities of the device and the ways that customers need to use it. The package drawing was updated to show the correct appearance of the pins.			

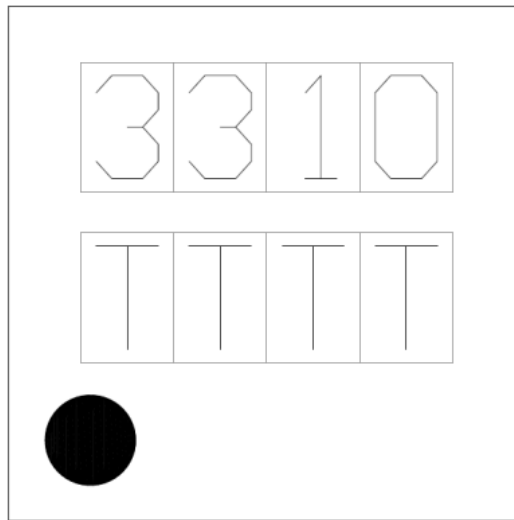
Impact on Form, Fit, Function, Quality, Reliability:

Only the form changes due to the new top mark.

Previous top mark



New top mark



Product Identification:

Affected Part Numbers
TS3310ITD1022
TS3310ITD1022T

Note: The part numbers above include tape and reel variants which are denoted with a "T" at the end of the orderable part number.

Last Date of Unchanged Product: 5/12/2016

Qualification Samples:

Samples are available now directly from Silicon Labs. Please contact your Silicon Labs sales representative to order samples. A list of Silicon Labs sales representatives is available at www.silabs.com



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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:

<TS3310-ITD> Qualification Report



W7101F1 - Product Qualification Report Record Rev. H

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Part Rev C, 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							
HAST	JA110 130°C, 85%RH Vcc=3.6V, 96 hours	1 lot, N=>25	Q036583	0/30	2	1 lots 0/30	Pass
uHAST	JA110 130°C, 85%RH 96 hours, unbiased	1 lot, N=>25	Q036580	0/30		1 lots 0/30	Pass
Moisture/Reflow Sensitivity (MSL1)	JA113 Reflow 3x @ 260°C MSL1	1 lot, N=>75	Q036440	0/150	1, 2	1 lots 0/150	Pass
Temp Cycle	JA104 Cond C: -65°C to 150°C 500 cycles	1 lot, N=>25	Q036579	0/30	2	1 lots 0/30	Pass
LTSL	JA103 -55°C, 1000hr	1 lot, N=>25	Q036581	0/30		1 lots 0/30	Pass
HTSL	JA103 150°C, 1000hr	1 lot, N=>25	Q036584	0/30	2	1 lots 0/30	Pass
Test Group B – Accelerated Lifetime Simulation Tests							
HTOL	JA108 T _J ≥ 125°C, Dynamic Vcc=3.6V, 1000 hours	1 lot, N=>77	Q037059	0/100	2	1 lots 0/100	Pass
ELFR	JA108 T _J ≥ 125°C, Dynamic Vcc=3.6V, 48 hours	1 lot, N=>500	Q037058	0/500	2	1 lots 0/500	Pass
Test Group E – Electrical Verification							
ESD-HBM	JA114	1 lot, N=>3	Q037053	0/12	2500V	1 lot 0/12	Class 2
ESD-CDM	JC101	1 lot, N=>3	Q037055	0/12	1000V	1 lot 0/12	Class C3
Latch Up	JESD78 ±100mA Overvoltage = 3.6V	1 lot, N=>3 1 lot, N=>3	Q037057 Q037056	80 °C 25 °C			Pass Pass

Notes:

1. Parts are Pre-conditioned at MSL1/260°C
2. QBS using rev. B

Approved by: Ed Sharp

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Prepared on: 27-Jan-2016

<TS3310-ITD> Qualification Report



W7101F1 - Product Qualification Report Record Rev. H

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Part Rev C, TSMC Fabrication, UNISEM Assembly except as noted

Test Name	Test Condition	Qualification	Lot ID or Start	Fail/Pass or End	Notes	Summary	Status
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This report applies to the following part numbers:

TS3310-ITD (TS3310ITD1022)	TS3310-ITDT (TS3310ITD1022T)
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Approved by: Ed Sharp

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Prepared on: 27-Jan-2016