



PCN Number: **UMCOCT14**
Chgot.doc rev 13 1/14

Product/Process Change Notification (PCN)

Customer: Newark

Date: March 10, 2015

Catalog / Customer Part # and/or Lot# affected: A2982SLWTR-T

Originator: J.Hurley

Phone: 508-854-5431

Duration of Change:

Permanent Temporary (explain)

Summary description of change: Part Change: Process Change: Other:

Allegro currently manufactures the A2982SLWTR-T at wafer fab, Polar Semiconductor LLC (PSL), Bloomington, MN, USA.

What is the part or process changing from (provide details)?

Allegro currently manufactures the A2982SLWTR-T, 6 inch device at wafer fab, Polar Semiconductor LLC (PSL), Bloomington, MN, USA.

What is the part or process changing to (describe the anticipated impact of this change on form, fit and/or function)?

The A2982SLWTR-T will transition to an 8 inch device at wafer fab, Polar Semiconductor LLC (PSL), Bloomington, MN, USA.

Note: Validation of equivalence within a specific application is at the discretion of the Customer.



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Is a PPAP update required?

Yes

No

Is reliability testing required?
(If Yes, refer to attached plan)

Yes

No (explain)



High-Performance Semiconductors

Reliability Qualification Results

Device: **7861 (5261)**
Assy Lot #: **14344050PXAA**
Fab Location: **PSL**
Package: **LW (SOIC)**

Number of Leads: **20**
Assembly Location: **Unisem**
Tracking Number: **2862**
Lead Finish: **100% Sn**

Reason For Qualification: **7861 (5261) Catalog Part #: A2982SLW - PSL 8" version of 5261, (no design changes)**

Reliability Qualification Results						
7861, 5261, Catalog Part #: A2982, STR#2862					Requirements	
Stress Test	Abv.	Test #	Test Method	Test Conditions	S.S.	Results
Electrical Distributions	ED	E5	AEC Q100-009	Tri-Temp Electrical Distributions	30 pcs/lot	0 Rejects; Cpk > 1.67
Review of previous Electrical Distributions vs. New results	A-vs.-B	E5-B	AEC Q100-009	Tri-Temp Electrical Distributions	30 pcs/lot	0 Rejects; Cpk > 1.67 Review Approved.

This device qualification is considered to be passing all environmental stress evaluations per the Allegro MicroSystems, 900019 specification.



Expected completion date for internal qualification: Complete

Expected PPAP availability date: N/A

Target implementation date: July 1, 2015

Estimated date of first shipment: August 1, 2015

Expected sample availability date: Available Now

Customer Approval Required: Yes **Date Required:**
No **Notification Only**

Please note: It is our intention to inform our customer of changes as early as possible. Under Allegro's procedure for product/process change notification, Allegro strives, based on its technical judgment, to provide notification of significant changes that may affect form, fit or function. However, as Allegro cannot ensure evaluation of product/process changes for each and every application; the customer retains responsibility to validate the impact of a change on its application suitability. If samples are needed for validation of a change, requests may be made via the contact information provided herein. Please contact your Account Manager or local Sales contact for any questions. We would kindly request your consideration so we can meet our target date for implementation. Unless both parties agree to extend the implementation date, this change will be implemented as scheduled.

Customer comments/Conditions of Acceptance:

Approved by:

cc: Allegro Sales/Marketing/Quality

Date:

Title: