

PCN Number:
Chgnot.doc rev 13 1/14

Product/Process Change Notification (PCN)

Customer: Newark

Date: August 05, 2015

Customer Part # and/or Lot# affected:

A1120ELHLT-T	A1220ELHLX-T	A3291KLHLT-T
A1120ELHLX-T	A1220LLHLT-T	A3291KLHLX-T
A1120LLHLT-T	A1220LLHLX-T	A3295KLHLT-T
A1120LLHLX-T	A1221ELHLT-T	A3295KLHLX-T
A1123ELHLT-T	A1221ELHLX-T	A1223LLHLX-T
A1123ELHLX-T	A1221LLHLT-T	A1223LLHLT-T
A1123LLHLT-T	A1221LLHLX-T	A1223ELHLT-T
A1123LLHLX-T	A3290KLHLT-T	A1223ELHLX-T
A1220ELHLT-T	A3290KLHLX-T	A1223LLHLT-T
<i>Including all finishing suffix variations of the sales roots listed</i>		A1223LLHLX-T

Originator: Stylianos Kalakonas

Phone: 603-626-2484

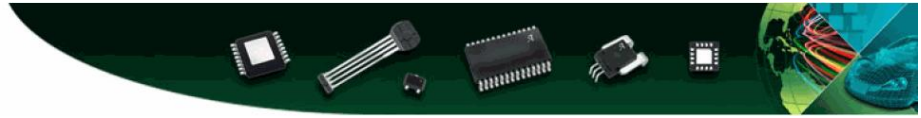
Fax: 603-641-5336

Duration of Change:

Permanent Temporary (explain)

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

1. Allegro has added a second source wafer fabrication facility for the above mentioned list of parts.
2. In 2011 Allegro MicroSystems, LLC qualified a sub-contractor assembly site in Perak, Malaysia for our SOT-23W package. In addition we have recently installed and qualified a new in-house SOT-23W assembly line at Allegro’s Manila, Philippines facility that replicates the line at our subcontractor. The product referenced in this document will be transitioning from aging SOT-23W assembly lines to dual assembly sites using modern equipment and the latest assembly techniques.



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

1. Allegro currently manufactures wafers for the above mentioned list of devices at Polar Semiconductor Inc. (PSI), Bloomington, MN, USA using DABIC 6 technology.
2. Existing Allegro standard SOT-23W assembly line located at our facility in Manila, Philippines and/or SOT-23W assembly lines located at our subcontractor’s facility in Perak, Malaysia (for customer previously PCN’d)

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

1. Allegro has added a second source wafer fabrication facility known as United Microelectronics Corporation (UMC), Hsinshu Taiwan, using the same DABIC 6 technology for the above mentioned list of parts. Parts from these two wafer fabrication facilities are in full compliance with the electrical and dimensional parameters on the existing Allegro published datasheet.
2. Dual source SOT-23W assembly lines located at our subcontractor’s facility in Perak, Malaysia and Allegro’s new line in Manila, Philippines. Parts from these two assembly lines are in full compliance with the electrical and dimensional parameters on the existing Allegro published datasheet.

There is no significant impact to form fit or function for these part changes.

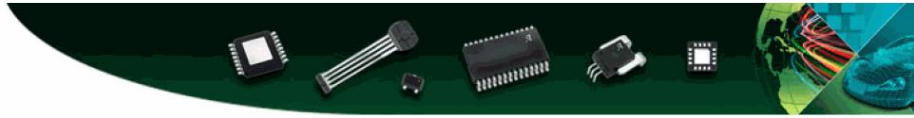
Note: Validation of equivalence within a specific application is at the discretion of the Customer.

Brand Comparison

From: Existing Allegro SOT-23W Brand	To: Dual Source SOT-23W Brand
01E	101

- **From (Existing Allegro SOT-23W):**
Last two digits of the part number + Temperature range designator (ex. 01E)
- **To (Dual Source SOT-23W):**
Last three digits of the part number (ex. 101)

Note: Customers receiving parts from SOT-23W subcontractor facility are already receiving the dual source branding format.



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Is a PPAP update required? Yes No

Is reliability testing required? Yes No (explain)

Expected completion date for internal qualification: Complete

Expected PPAP availability date: Upon request

Target implementation date: March 2016

Estimated date of first shipment: TBD

Expected sample availability date: Available

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: