



PCN Number: 1604-1 Chgnot.doc rev. __ 8/16

Product/Process Change Notification (PCN)

Customer: SOLID STATE SUPPLIES LTD Date: 24 August 2016

Customer Part # affected:

A1225LUA-T	A1227LUA-T	A1229LUA-T	A3213EUA-T	A3214EUA-T
A1225LUA-I-T	A1227LUA-I-T	A1229LUA-I-T	A3213LUA-T	A3214LUA-T
Including all finishing suffix variations of the sales root listed				

Originator: Stylianos Kalakonas Phone: 603-626-2484 Fax: 603-641-5336

Duration of Change:	Permanent X Temporary (explain)	
Summary description of change: Part Change:	X Process Change: X Other:	

Allegro is discontinuing its legacy UA 3-pin single inline package (SIP) as we invest in our next generation UA SIP featuring advancements in assembly technology, a matrix high density (HD) leadframe, and state of the art mold compound. Please take note of the minor dimensional and material changes.

What is the part or process changing from?

1. Package:

Allegro's legacy UA package. Please reference DWG-0949.

Mold Compound: MG35F

Package lead length: 15.75 +/- 0.51 mm

Lead Finish: Trim after tin plate Dam bar from package: 2.16 mm Mold gate top of the package: None

No Draft Angle from Top Mold to back of package

2. Top Branding:

See attached picture for existing Allegro UA package branding.





What is the part or process changing to?

1. Package:

Allegro's Matrix HD UA package. Please reference DWG-9067.

Mold Compound: G700-LS, Rohs compliant low stress, green mold compound

Package lead length: 14.99 +/- 0.25 mm

Lead Finish: Trim before Tin plate resulting in plating of the dambar with no exposed Cu

Dam bar from package: 1.02 mm

Mold gate top of the package: The redesigned with mold "pull-backs" in the gate and tie bar areas prevent mold flashing and burrs from protruding beyond the gate and tie bars. The 10° Draft Angle from Top Mold to back of package improves ejection from the mold.

2. Top Branding:

Please see attached picture of top brand of Matrix HD UA package.

Other minor changes in the flow and BOM internal to the package will be provided in the PPAP.

There is no impact to function.

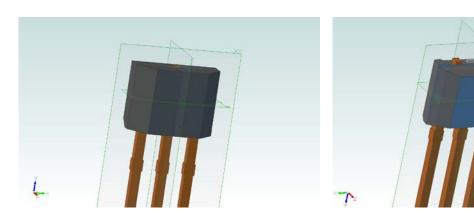
Note: Validation of equivalence within a specific application is at the discretion of the Customer.

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Is a PPAP update required?	Yes X	No
Reliability testing required? (See attached qual results)	Yes X	No (explain)





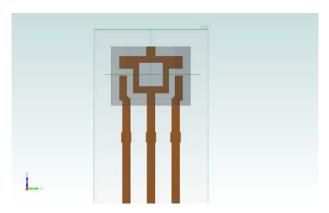
Legacy UA vs Matrix HD UA - Visual Differences



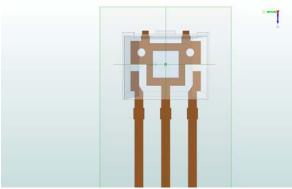
Legacy UA Matrix HD UA

• Top of package on the Matrix HD UA has tie and dam bar protrusions

Legacy UA vs Matrix HD UA – Leadframe Differences



Legacy UA leadframe



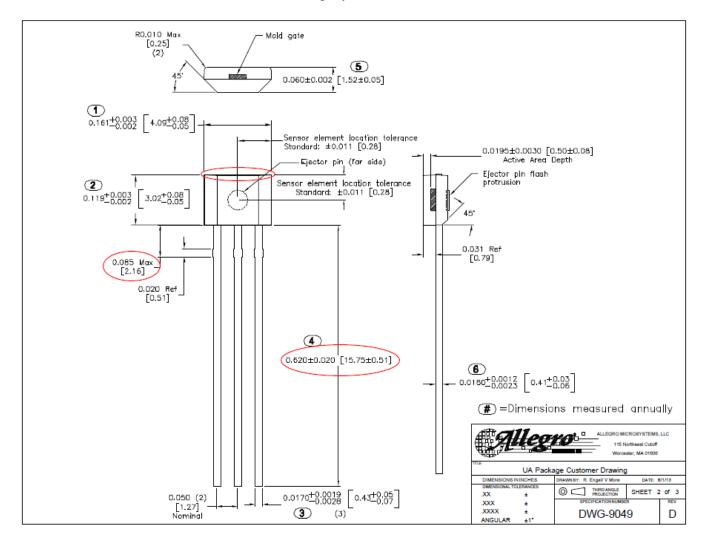
Matrix HD UA leadframe





Legacy UA vs Matrix HD UA - Dimensional Comparison

Legacy UA

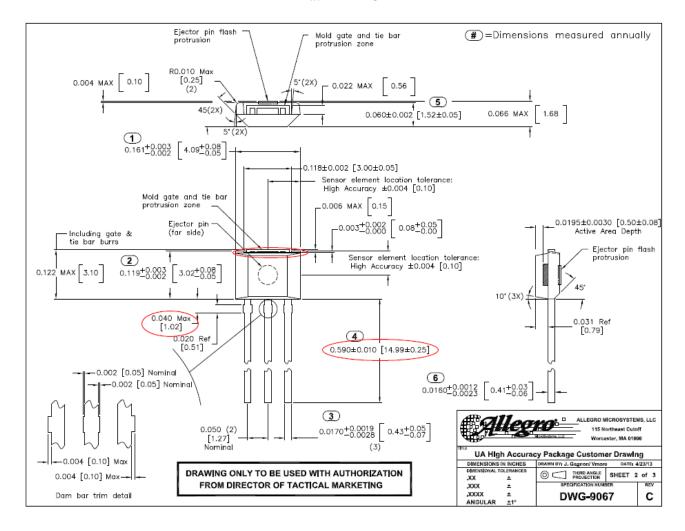






Legacy UA vs Matrix HD UA - Dimensional Comparison Continued

Matrix HD UA



Package	Width (mm)	Height (including tie & gate bar protrusions) (mm)	Lead Length (mm)	Leadframe Mold Offset (mm)
Legacy UA	4.09 (+0.08, -0.05)	3.02 (+0.08, -0.05)	15.75 +/-0.51	+/-0.101
Matrix HD UA	4.09 (+0.08, -0.05)	3.02 (+0.08, -0.05)	14.99 +/-0.25	+/-0.051





Top Branding Comparison

Legacy UA Matrix HD UA

O1E 101

- Legacy UA Top Branding: Last two digits of part number + Temperature range designator
- Matrix HD UA Top Branding: Last three digits of the part number





Expected completion date for internal qualification: November 2016				
Expected PPAP availability date: Dec. 2016 / Jan. 2017 (Three weeks upon request) Estimated date of first shipment: March 2017 Expected sample availability date: Available				
Yes Date Required: or earlier				
Customer Approval:	No X	Notification Only		
Returnable Last Time Buy (LTB) of requested delivery no later than 12 year of demand unless there is a separate the separate of the separate than 12 years.	orders for t months fro parate agre	-		
Final Da	ate to plac	e LTB orders: August 2017		
Allegro's procedure for product/prijudgment, to provide notification function. However, as Allegro can every application; the customer rapplication suitability. If samples a contact information provided herein any questions. We would kindly	rocess char on of sig nnot ensur retains resp re needed to n. Please of request y	our customer of changes as early as possible. Under nge notification, Allegro strives, based on its technical nificant changes that may affect form, fit or re evaluation of product/process changes for each and ponsibility to validate the impact of a change on its for validation of a change, requests may be made via the contact your Account Manager or local Sales contact for our consideration so we can meet our target date for so extend the implementation date, this change will be		
Customer comments/Conditions of Acceptance:				
Approved by:	Date:	Title:		

cc: Allegro Sales/Marketing/Quality