



Integrated Device Technology, Inc.  
6024 Silver Creek Valley Road, San Jose, CA - 95138

## PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A1812-01** Date: December 14, 2018  
Product Affected: SOIC-8  
(Refer to attachment 2 for affected part numbers)

Date Effective: March 14, 2019

### MEANS OF DISTINGUISHING CHANGED DEVICES:

- ☐ Product Mark  
☒ Back Mark Lot # will have a "GR" prefix  
☐ Date Code  
☐ Other

Contact: IDT PCN DESK

Attachment: ☒ Yes ☐ No

E-mail: [pcndesk@idt.com](mailto:pcndesk@idt.com)

Samples: Please contact your local sales representative for sample request & availability.

### DESCRIPTION AND PURPOSE OF CHANGE:

- ☐ Die Technology  
☐ Wafer Fabrication Process  
☐ Assembly Process  
☐ Equipment  
☒ Material  
☐ Testing  
☒ Manufacturing Site  
☐ Data Sheet  
☐ Other

This notification is to advise our customers that IDT is adding Greatek, Taiwan as an alternate assembly facility.

There is no change to the moisture performance rating.

Please refer to Attachment 1 for the qualification summary and material set details.  
Please refer to Attachment 2 for affected part# list.

### RELIABILITY/QUALIFICATION SUMMARY:

Qualification has been successfully completed. There is no change in MSL rating.

### CUSTOMER ACKNOWLEDGMENT OF RECEIPT:

IDT records indicate that you require written notification of this change. Please use the acknowledgement below or E-Mail to grant approval or request additional information. If IDT does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.

IDT reserves the right to ship either version manufactured after the process change effective date until the inventory on the earlier version has been depleted.

Customer: \_\_\_\_\_

☐ **Approval for shipments prior to effective date.**

Name/Date: \_\_\_\_\_

E-Mail Address: \_\_\_\_\_

Title: \_\_\_\_\_

Phone# /Fax# : \_\_\_\_\_

### CUSTOMER COMMENTS:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

### IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: \_\_\_\_\_

DATE \_\_\_\_\_



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT 1 - PCN # : A1812-01

**PCN Type:** Alternate Assembly Location & Change of material sets

**Data Sheet Change:** N/A

**Detail Of Change:**

This notification is to advise our customers that IDT is adding Greatek, Taiwan as an alternate assembly facility.

The material set details of the current and alternate Assembly locations is shown in the tables below. The die attach, mold compound and bonding wire used at the alternate assembly sites are qualified IDT materials. There is no change from the existing qualified lead frame material and lead finish for these alternate assembly sites.

There is no change to the moisture performance rating but the material declaration will differ.

#### Qualified Material Sets, by Assembly Subcontractor

| Material Set /<br>Assembly | Existing                    |                                          |                         | Alternate                |
|----------------------------|-----------------------------|------------------------------------------|-------------------------|--------------------------|
|                            | ATP - Amkor,<br>Philippines | OSET- Orient<br>Semiconductor,<br>Taiwan | UTL - UTAC,<br>Thailand | GEI - Greatek,<br>Taiwan |
| Die Attach                 | Ablestik 8290               | EN4900GC                                 | Ablestik 2200           | CRM-1076DJ-G             |
| Bonding Wire               | Gold wire                   | Gold wire                                | Gold wire               | Gold wire                |
| Mold Compound              | EME-G600                    | CEL-9220HF                               | EME-G600                | EME-G700H                |



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### ATTACHMENT 1 - PCN # : A1812-01

#### Qualification Information and Qualification Data:

**Affected Packages:** SOIC-8

**Assembly Material:** The affected package type is using the respective subcon standard materials as shown on page 1 of this attachment.

**Qual Plan & Results:** Tests are in accordance with JEDEC47 recommended tests

**Qualification Vehicle:** SOIC-8 (3 lots)

| Test Description                                                 | Test Method            | Test Results (Rej/SS) |        |        |
|------------------------------------------------------------------|------------------------|-----------------------|--------|--------|
|                                                                  |                        | Lot 1                 | Lot 2  | Lot 3  |
| <sup>1</sup> HAST - biased<br>(130 °C/85% RH, 96 Hrs)            | JESD22-A110            | 0 / 25                | 0 / 25 | 0 / 25 |
| <sup>1</sup> HAST - unbiased<br>(130 °C/85% RH, 96 Hrs)          | JESD22-A118            | 0 / 25                | 0 / 25 | 0 / 25 |
| <sup>1</sup> Temperature Cycling<br>(-55°C to 125°C, 700 cycles) | JESD22-A104            | 0 / 25                | 0 / 25 | 0 / 25 |
| High Temperature Storage Test<br>(150°C, 1000 hours)             | JESD22-A103            | 0 / 25                | 0 / 25 | 0 / 25 |
| Ball Shear Test                                                  | JESD22-B116            | 0 / 5                 | 0 / 5  | 0 / 5  |
| Bond Pull Test                                                   | MIL-STD-883,<br>M 2011 | 0 / 5                 | 0 / 5  | 0 / 5  |
| X-ray Examination                                                | MIL-STD-883,<br>M 2015 | 0 / 45                | 0 / 45 | 0 / 45 |

Notes: 1. Subjected to Preconditioning per JESD22-A113 for MSL 1



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## PRODUCT/PROCESS CHANGE NOTICE (PCN)

### ATTACHMENT 2 - PCN # : A1812-01

#### Affected Part Numbers

| Part Number  | Part Number | Part Number | Part Number |
|--------------|-------------|-------------|-------------|
| 252MI-47LFT  | 343M-59LF   | 251M-37LFT  | 252M-51LFT  |
| 252PMLFT     | 343M-59LFT  | 251M-38LF   | 252M-55LF   |
| 341-42MIPLF  | 343M-60LF   | 251M-38LFT  | 252M-55LFT  |
| 341-42MIPLFT | 343M-60LFT  | 251MI-34LF  | 252M-62LF   |
| 341-42MPLF   | 343M-61LF   | 251MI-34LFT | 252M-62LFT  |
| 341-42MPLFT  | 343M-61LFT  | 251MI-38LF  | 252MI-31LF  |
| 341M-33LF    | 343M-62LF   | 251MI-38LFT | 252MI-31LFT |
| 341M-33LFT   | 343M-62LFT  | 251PMILF    | 252MI-32LF  |
| 341MIPLF     | 343MI-31LF  | 251PMILFT   | 252MI-32LFT |
| 341MIPLFT    | 343MIPLF    | 251PMLF     | 252MI-33LFT |
| 341MPLF      | 343MIPLFT   | 251PMLFT    | 252MI-45LF  |
| 341MPLFT     | 343MPLF     | 252M-08LFT  | 252M-49LFT  |
| 342M-17LF    | 343M-53LFT  | 251M-37LF   | 252M-49LF   |
| 252PMLF      | 343M-53LF   | 251M-35LFT  | 252M-24LFT  |
| 252PMILFT    | 342M-30LFT  | 251M-07LFT  | 252M-25LFT  |
| 252MI-48LF   | 342M-32LFT  | 251M-21LF   | 252M-26LF   |
| 252MI-48LFT  | 342MI-34LF  | 251M-21LFT  | 252M-26LFT  |
| 252MI-50LF   | 342MI-34LFT | 251M-22LF   | 252M-42LF   |
| 252MI-50LFT  | 342MIPLF    | 251M-22LFT  | 252M-42LFT  |
| 252MI-52LF   | 342MIPLFT   | 251M-29LF   | 252M-43LF   |
| 252MI-52LFT  | 342MPLF     | 251M-29LFT  | 252M-43LFT  |
| 252MI-53LF   | 342MPLFT    | 251M-30LF   | 252M-44LF   |
| 252MI-53LFT  | 343M-34LFT  | 251M-30LFT  | 252M-44LFT  |
| 252MI-65LF   | 343M-39LFT  | 251M-33LF   | 252M-46LF   |
| 252MI-65LFT  | 343M-48LF   | 251M-33LFT  | 252M-46LFT  |
| 252MI-66LF   | 343M-48LFT  | 251M-35LF   | 252MI-45LFT |
| 252PMILF     | 343MPLFT    | 252M-23LF   |             |
| 342M-17LFT   | 252MI-47LF  | 252M-23LFT  |             |
| 342M-30LF    | 251M-07LF   | 252M-51LF   |             |