



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

| | | |
|--|------------------------|--|
| PCN #: A-0607-01 | DATE: 10/6/2006 | MEANS OF DISTINGUISHING CHANGED DEVICES: <input checked="" type="checkbox"/> Product Mark Mark location will have an 'Z' code <input type="checkbox"/> Back Mark <input type="checkbox"/> Date Code <input type="checkbox"/> Other |
| Product Affected: 28L, 32L, 44L SOJ Packages (Standard and Green) | | |
| Date Effective: 1/6/2007 | | |

| | |
|--|---|
| Contact: Geoffrey Cortes Title: Product Quality Assurance Phone #: (408) 284-8321 Fax #: (408) 284-1450 E-mail: Geoffrey.Cortes@idt.com | Attachment: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Samples: Please contact your local sales representative for sample request & availability. |
|--|---|

DESCRIPTION AND PURPOSE OF CHANGE:

| | |
|--|---|
| <input type="checkbox"/> Die Technology <input type="checkbox"/> Wafer Fabrication Process <input type="checkbox"/> Assembly Process <input type="checkbox"/> Equipment <input type="checkbox"/> Material <input type="checkbox"/> Testing <input checked="" type="checkbox"/> Manufacturing Site <input type="checkbox"/> Data Sheet <input type="checkbox"/> Other | <p>This notification is to advise our customers that IDT is adding Lingsen, Taiwan as an alternate assembly facility for 28L, 32L and 44L SOJ packages, for both standard and green products. There is no change to the moisture performance of these packages.</p> <p>Attachment I details the qualification data for this change and Attachment II shows the affected list of part numbers.</p> |
|--|---|

RELIABILITY/QUALIFICATION SUMMARY:

Refer to qualification data shown in attachment I.

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: _____ | <input type="checkbox"/> <i>Approval for shipments prior to effective date.</i> |
| Name/Date: _____ | E-Mail Address: _____ |
| Title: _____ | Phone# /Fax# : _____ |

CUSTOMER COMMENTS: _____

IDT ACKNOWLEDGMENT OF RECEIPT:

RECD. BY: _____ DATE: _____



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A-0607-01

PCN Type: Manufacturing Site - Alternate Assembly Location
Data Sheet Change: None
 No change in moisture sensitivity level (MSL)

Detail Of Change:

This notification is to advise our customers that IDT is adding Lingsen, Taiwan as an alternate assembly facility for 28L, 32L and 44L SOJ packages, for both standard and green products using the assembly material set as listed in Table 1.

There is no change in the moisture sensitivity level (MSL).

Table 1

| Description | Existing | Add |
|-------------------|---|----------------------------------|
| Assembly Location | ASE-Kaohsiung, OSE Philippines | Lingsen, Taiwan |
| Assembly Material | Die Attach: 8390/Ablestik 2288A | Die Attach: CRM-1033BF |
| | Wire: M3 1.3/GL2 1.0 mil Au/1.2 mil Au | Wire: 1.3 mil Au |
| | Mold Compound: Sumitomo EME-G600 series/Sumiitomo EME-G700A | Mold Compound: Sumitomo EME-G600 |
| | Lead Frame: Copper Alloy | Same |
| | Plating: Sn/Pb (standard) and matte 100% Sn (green) | Same |

Sample Availability:

Samples for each package type are available for customer evaluation, but may not be available for all devices.

Please contact your local IDT sales representative for your sample request and availability.



PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT I - PCN # : A-0607-01

Qualification Information and Qualification Data:

Test Vehicle: 44L, SOJ 400mil (Green), 1 lot

| Test Description | Test Method | Test Result (SS/Rej) |
|---|-------------|----------------------|
| * Temperature Cycling (-65°C to +150°C, 500 cycles) | JESD22-A104 | 22/0 |
| * HAST (130°C/85% RH, 100 hours) | JESD22-A110 | 22/0 |
| * Pressure Cooker (121°C/100% RH, 168 hours) | JESD22-A102 | 22/0 |
| * High Temperature Stabilization Bake (150°C, 1000 hours) | JESD22-A103 | 22/0 |

Notes: * Test requires moisture pre-conditioning sequence per JESD22-A113

Tin Whisker Test Data

Test Vehicle: 32L SOJ and 100L 14x20mm TQFP

| Test Description | Test Condition | Test Duration | Spec Limits | Test Results (SS/Rej) |
|---------------------|-------------------|---------------------|-------------|-----------------------|
| Storage Test | 25°C/30% - 80% RH | 0, 1000, 2000 hours | 40µm max. | 9/0 |
| Aging | 60°C / 90% RH | 0, 1000, 2000 hours | 40µm max. | 9/0 |
| Temperature Cycling | -55°C to +85°C | 0, 500 cycles | 40µm max. | 9/0 |

Note: The 100L 14x20mm TQFP and 32L SOJ uses the same leadframe allow material and plating chemistry.



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PRODUCT/PROCESS CHANGE NOTICE (PCN)

ATTACHMENT II - PCN # : A-0607-01

Affected Part Number

| IDT Part Number | IDT Part Number | IDT Part Number | IDT Part Number |
|-----------------|-----------------|-----------------|-------------------|
| IDT61298SA12Y | IDT71028S12Y | IDT71256SA12YGI | IDT71T016SA20YI |
| IDT61298SA12YG | IDT71028S12YG | IDT71256SA12YI | IDT71V016SA10Y |
| IDT61298SA15Y | IDT71028S12YI | IDT71256SA15Y | IDT71V016SA10YGI |
| IDT61298SA15YG | IDT71028S15Y | IDT71256SA15YG | IDT71V016SA10YGI |
| IDT71016S12Y | IDT71028S15YG | IDT71256SA15YGI | IDT71V016SA10YI |
| IDT71016S12YG | IDT71028S15YGI | IDT71256SA15YI | IDT71V016SA12Y |
| IDT71016S12YGI | IDT71028S15YI | IDT71256SA20Y | IDT71V016SA12YG |
| IDT71016S12YI | IDT71028S20Y | IDT71256SA20YG | IDT71V016SA12YGI |
| IDT71016S15Y | IDT71028S20YG | IDT71256SA20YGI | IDT71V016SA12YI |
| IDT71016S15YG | IDT71028S20YGI | IDT71256SA20YI | IDT71V016SA15Y |
| IDT71016S15YGI | IDT71028S20YI | IDT71256SA25Y | IDT71V016SA15YGI |
| IDT71016S15YI | IDT71124S12Y | IDT71256SA25YG | IDT71V016SA15YGI |
| IDT71016S20Y | IDT71124S12YG | IDT71256SA25YI | IDT71V016SA15YI |
| IDT71016S20YG | IDT71124S12YGI | IDT7164L15Y | IDT71V016SA20Y |
| IDT71016S20YGI | IDT71124S12YI | IDT7164L15YG | IDT71V016SA20YGI |
| IDT71016S20YI | IDT71124S15Y | IDT7164L15YGI | IDT71V016SA20YGI |
| IDT71024S12TY | IDT71124S15YG | IDT7164L15YI | IDT71V016SA20YI |
| IDT71024S12TYG | IDT71124S15YGI | IDT7164L20Y | IDT71V124S15Y |
| IDT71024S12TYGI | IDT71124S15YI | IDT7164L20YG | IDT71V124S20Y |
| IDT71024S12TYI | IDT71124S20Y | IDT7164L20YGI | IDT71V124SA10TY |
| IDT71024S12Y | IDT71124S20YG | IDT7164L20YI | IDT71V124SA10TYG |
| IDT71024S12YG | IDT71124S20YGI | IDT7164L25YG | IDT71V124SA10TYGI |
| IDT71024S12YGI | IDT71124S20YI | IDT7164L25YGI | IDT71V124SA10TYI |
| IDT71024S12YI | IDT71128S12Y | IDT7164L25YI | IDT71V124SA10Y |
| IDT71024S15TY | IDT71128S12YG | IDT7164L35YG | IDT71V124SA10YGI |
| IDT71024S15TYG | IDT71128S12YI | IDT7164L35YGI | IDT71V124SA10YGI |
| IDT71024S15TYGI | IDT71128S15Y | IDT7164S15Y | IDT71V124SA10YI |
| IDT71024S15TYI | IDT71128S15YG | IDT7164S15YG | IDT71V124SA12TY |
| IDT71024S15Y | IDT71128S15YI | IDT7164S15YGI | IDT71V124SA12TYG |
| IDT71024S15YG | IDT71128S20Y | IDT7164S15YI | IDT71V124SA12TYGI |
| IDT71024S15YGI | IDT71128S20YI | IDT7164S20Y | IDT71V124SA12TYI |
| IDT71024S15YI | IDT71256L20Y | IDT7164S20YG | IDT71V124SA12Y |
| IDT71024S20TY | IDT71256L20YG | IDT7164S20YGI | IDT71V124SA12YG |
| IDT71024S20TYG | IDT71256L20YGI | IDT7164S20YI | IDT71V124SA12YGI |
| IDT71024S20TYGI | IDT71256L25Y | IDT7164S25YG | IDT71V124SA12YI |
| IDT71024S20TYI | IDT71256L25YG | IDT7164S25YGI | IDT71V124SA15TY |
| IDT71024S20Y | IDT71256L25YGI | IDT7164S35YG | IDT71V124SA15TYG |
| IDT71024S20YG | IDT71256L25YI | IDT7164S35YGI | IDT71V124SA15TYGI |
| IDT71024S20YGI | IDT71256L35Y | IDT7164S35YI | IDT71V124SA15TYI |
| IDT71024S20YI | IDT71256L35YG | IDT71T016SA12Y | IDT71V124SA15Y |
| IDT71024S25TYG | IDT71256L35YGI | IDT71T016SA12YI | IDT71V124SA15YGI |
| IDT71024S25TYGI | IDT71256L35YI | IDT71T016SA15Y | IDT71V124SA15YGI |
| IDT71024S25Y | IDT71256SA12Y | IDT71T016SA15YI | IDT71V124SA15YI |
| IDT71024S25YG | IDT71256SA12YG | IDT71T016SA20Y | IDT71V124SA20TY |

Notes: For T & R (shipping method) "8" is added to the p/n.



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ATTACHMENT II - PCN # : A-0607-01

Affected Part Number

| IDT Part Number | IDT Part Number | IDT Part Number | IDT Part Number |
|-------------------|------------------|-----------------|-----------------|
| IDT71V124SA20TYG | IDT71V256SA15YG | IDT71V416L15YGI | IDT71V428L10YG |
| IDT71V124SA20TYGI | IDT71V256SA15YGI | IDT71V416L15YI | IDT71V428L10YGI |
| IDT71V124SA20TYI | IDT71V256SA15YI | IDT71V416S10Y | IDT71V428L12Y |
| IDT71V124SA20Y | IDT71V256SA20Y | IDT71V416S10YG | IDT71V428L12YI |
| IDT71V124SA20YI | IDT71V256SA20YG | IDT71V416S10YGI | IDT71V428L15Y |
| IDT71V256S10YG | IDT71V256SA20YGI | IDT71V416S10YI | IDT71V428L15YI |
| IDT71V256S12YG | IDT71V256SA20YI | IDT71V416S12Y | IDT71V428S10Y |
| IDT71V256SA10Y | IDT71V416L10Y | IDT71V416S12Y1 | IDT71V428S10YI |
| IDT71V256SA10YG | IDT71V416L10YG | IDT71V416S12YG | IDT71V428S12Y |
| IDT71V256SA10YGI | IDT71V416L10YI | IDT71V416S12YGI | IDT71V428S12YI |
| IDT71V256SA10YI | IDT71V416L12Y | IDT71V416S12YI | IDT71V428S15Y |
| IDT71V256SA12Y | IDT71V416L12YG | IDT71V416S15Y | IDT71V428S15YI |
| IDT71V256SA12YG | IDT71V416L12YGI | IDT71V416S15YG | |
| IDT71V256SA12YGI | IDT71V416L12YI | IDT71V416S15YGI | |
| IDT71V256SA12YI | IDT71V416L15Y | IDT71V416S15YI | |
| IDT71V256SA15Y | IDT71V416L15YG | IDT71V428L10Y | |

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