



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

PRODUCT/PROCESS CHANGE NOTICE (PCN)

PCN #: **A1110-02** DATE: **October 17, 2011**

Product Affected: **7.6mm x 10.4mm SOIC-16**

Date Effective: **November 17, 2011**

MEANS OF DISTINGUISHING CHANGED DEVICES:

- Product Mark
- Back Mark Assembly lot # will have a "CT" prefix
- Date Code
- Other

Contact: Bimla Paul

Title: Product Quality Assurance

Attachment: Yes No

Phone #: (408) 574-6419

Fax #: (408) 284-8362

Samples: Availability shown on request

E-mail: Bimla.Paul@idt.com

DESCRIPTION AND PURPOSE OF CHANGE:

- | | |
|--------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> Die Technology | This notification is to advise our customers that IDT is adding Cirtek, Philippines as an alternate assembly facility for 7.6mm x 10.4mm SOIC-16. |
| <input type="checkbox"/> Wafer Fabrication Process | |
| <input type="checkbox"/> Assembly Process | |
| <input type="checkbox"/> Equipment | There is no change to the moisture performance of the package as a result of this change. |
| <input type="checkbox"/> Material | |
| <input type="checkbox"/> Testing | |
| <input checked="" type="checkbox"/> Manufacturing Site | Attachment I details the qualification data for this change |
| <input type="checkbox"/> Data Sheet | Attachment II details the affected part number list. |
| <input type="checkbox"/> Other | |

RELIABILITY/QUALIFICATION SUMMARY:

Please refer to the attached Qualification & reliability data.

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.

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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ATTACHMENT I - PCN # : A1110-02

PCN Type: Manufacturing Site

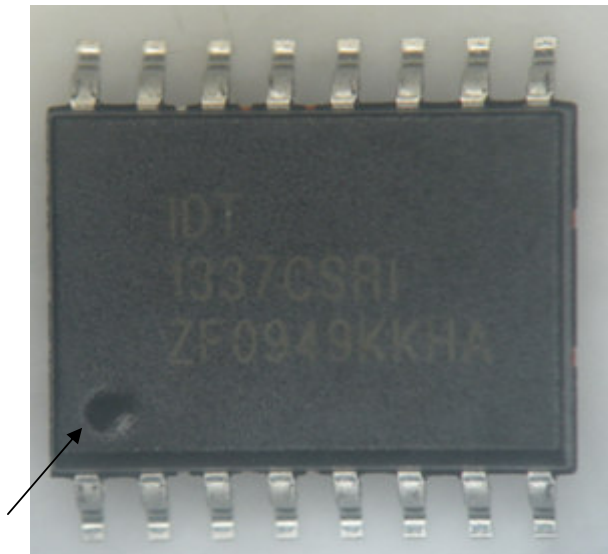
Data Sheet Change: No change

No change in moisture sensitivity level (MSL)

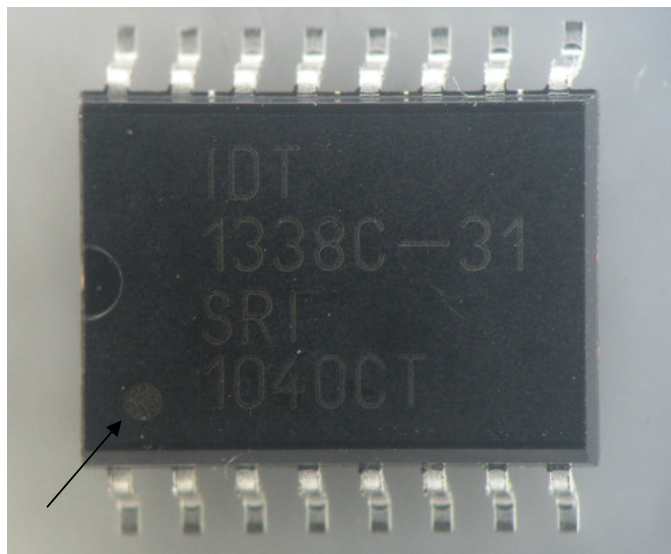
Details Of Change:

This notification is to advise our customers that IDT is adding Cirtek, Philippines as an alternate assembly facility for 7.6mm x 10.4mm SOIC-16. There is no change in the moisture sensitive level (MSL).

Pin 1 identification mark for products assembled at Cirtek will be a dot compare to dimple for Hana assembled parts. Please refer below for pin 1 identification mark for parts assembled at Hana and



Hana assembled part (with Pin 1 dimple)



Cirtek assembled part (with Pin 1 dot)



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Qualification Information and Qualification Data:

Affected Packages: 7.6mm x 10.4mm SOIC-16 (PI16)

Assembly Material: See Table below

Description	Existing	Add
Assembly Location	Hana Technology, Thailand	Cirtek, Philippines
Assembly Materials	Die Attach: 84-1LMISR4	84-1LMISR4
	Wire: Au wire	Au wire
	Mold Compound: G600	G600
	Lead Frame: Copper Alloy	Copper Alloy
	Plating: Matte 100% Sn	Matte 100% Sn

Qualification Test Plans and Results :

Qual Vehicle: 7.6mm x 10.4mm SOIC-16 (3 lots)

Test Description	Test Method	Test Results (SS / Rej)
High Accelerated Stress Test (Biased, 130 °C/85% RH, 100 Hours) - Note 1	JESD22-A110	25/0, 25/0, 25/0
Temperature Cycle (-55 °C to +125 °C, 700 Cycles) - Note 1	JESD22-A104	25/0, 25/0, 25/0
High Temp. Storage Test (150 °C, 1000 Hours)	JESD22-A103	25/0, 25/0, 25/0
Mechanical Shock Note 2	JESD22B-104C 1500G Peak/0.5msec	Due Oct 21 st
Mechanical Vibration Note 2	JESD22B-103A 20 to 2000Hz/20G Peak	Due Oct 21 st

Notes:

1. Test requires moisture pre-conditioning sequence per JESD22-A113 and will use the existing moisture sensitivity level that has been qualified for this material set.
2. PCN addendum will be issued to report mechanical shock and Vibration test results.



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ATTACHMENT II - PCN # : A1110-02

Affected Part Number

Part Number	Part Number	Part Number	Part Number
1337ACSRI	1338BC-31SRI8	1339C-2SRI	3231SR8
1337ACSRI8	1338C-18SRI	1339C-2SRI8	3231SRI
1337CSRI	1338C-18SRI8	1339C-31SRI	3231SRI8
1337CSRI8	1338C-31SRI	1339C-31SRI8	580337ACSRI
1337GCSRI	1338C-31SRI8	3231CSR	580337ACSRI8
1337GCSRI8	1339AC-31SRI	3231CSR8	580337CSRI
1338AC-31SRI	1339AC-31SRI8	3231CSRI	580337CSRI8
1338AC-31SRI8	1339BC-31SRI	3231CSRI8	ENG510TSRI
1338BC-31SRI	1339BC-31SRI8	3231SR	ENG510TSRI8