

Date Created: 7/29/2004
Date Issued: 8/27/2004
PCN # 20040002-A

DESIGN/PROCESS CHANGE NOTIFICATION -- FINAL

This is to inform you that a design and/or process change will be made to the following product(s). This notification is for your information and concurrence.

If you require data or samples to qualify this change, please contact **Fairchild Semiconductor within 30 days of receipt of this notification.**

If you have any questions concerning this change, please contact:

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PCN Originator

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REL Engineer

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PCN Type: Alternate Assembly/Test Location/Qualification

Effectivity

Expected 1st Device Shipment Date: 9/27/2004
Earliest Year/Work Week of Changed Product: 0440
(Note: Package marking may differ from this format)

Product ID (Description):

This change affects certain Power Discrete products assembled in TO-262/263 packages. The products affected by this change are listed below in the "Affected FSIDs" section.

Description of Change:

Fairchild Semiconductor (Suzhou) Co., LTD is being qualified as an additional assembly and test site as part of Fairchild Semiconductor's ongoing effort to increase manufacturing capacity for our various products assembled in the TO-262/263 packages.

This new facility is located at 1 Sutong Road, China-Singapore Suzhou Industrial Park Suzhou, Jiangsu P. R. of China.

The following are the package dimensional, process and material differences between the qualified sites and the additional Fairchild assembly and test facility to be qualified.

1.0 Material/ Process Comparison

TABLE 1 – Material Comparison

| | | Site 1-Qualified | Site 2-Qualified | Site 3-Qualified | Site 4-Test |
|--------------------|-------------|-------------------------|---------------------------------------|---------------------------------------|---------------------------------------|
| | | ChipPAC Malaysia | PSI Technologies | Fairchild-Cebu | Fairchild-Suzhou |
| Location | | Kuala Lumpur, Malaysia | Manila, Philippines | Cebu, Philippines | Suzhou, PRC |
| Leadframe | Plating | Full Ni | Selective Ni (Ni plating on LeadPost) | Selective Ni (Ni plating on LeadPost) | Selective Ni (Ni plating on LeadPost) |
| | Matl | Cu (Tamac4) | Cu(PMC-90) | Cu (Tamac2/ 12SnOFC/ KFC1/2H) | Cu (12SnOFC) |
| Wire | | Al | Al | Al | Al |
| D/A Solder | Composition | 92.5Pb5Sn2.5Ag | 92.5Pb5Sn2.5Ag/ 95Pb5Sn | 92.5Pb5Sn2.5Ag | 92.5Pb5Sn2.5Ag |
| Marking | Method | Laser | Laser | Laser | Laser |
| Plating | Composition | 82Sn18Pb or Pure Sn | 85Sn15Pb or Pure Sn | 85Sn15Pb or Pure Sn | 85Sn15Pb or Pure Sn |
| | Method | Electroplating | Electroplating | Electroplating | Electroplating |
| Fairchild Fab Site | | MountainTop/ Salt Lake | Salt Lake | Salt Lake/ MountainTop | Salt Lake/ MountainTop |

Note : Fairchild Suzhou plan is to be a Pb-Free Plating Finish Facility.

2.0 Package Dimensional Comparison

TABLE 2 – TO-263 Package Outline Information.

| DIMENSION SUMMARY | | | | | | | |
|-------------------|-----------------------------|---------------------|--------------|--------------|---------------------------------|------------|--------------|
| REF | DESCRIPTION | JEDEC STANDARD | | | FAIRCHILD MKT OUTLINE (CURRENT) | | |
| | | TO-263 variation AB | | | MKT-TO263A02 rev. B | | |
| | | MIN | NOM | MAX | MIN | NOM | MAX |
| E | Package width | 9.65 | 9.97 | 10.29 | 9.65 | --- | 10.29 |
| L2 | Heat sink height | --- | --- | 1.40 | 1.00 | --- | 1.40 |
| D | Package height | 8.64 | 9.14 | 9.65 | 8.53 | --- | 9.65 |
| L | Total package height | 14.61 | 15.24 | 15.88 | 14.61 | --- | 15.88 |
| e | Lead pitch | 2.54 | | BSC | 2.54 | | BSC |
| b2 | Lead shoulder width | 1.14 | 1.27 | 1.40 | 1.14 | --- | 1.60 |
| b | Lead mounting width | 0.51 | 0.75 | 0.99 | 0.51 | --- | 0.99 |
| E1 | Back metal heat sink width | 6.22 | --- | --- | 6.22 | --- | --- |
| D1 | Back metal heat sink height | 8.00 | --- | --- | 6.35 | --- | --- |
| L3 | Center lead cut length | 1.27 | 1.52 | 1.78 | 1.27 | --- | 1.90 |
| A | Package thickness | 4.06 | 4.45 | 4.83 | 4.06 | --- | 4.83 |
| c2 | Heat sink thickness | 1.14 | 1.27 | 1.40 | 1.14 | --- | 1.40 |
| L4 | Gage plane | 0.25 | | | 0.25 | | BSC |
| L1 | Foot length | 2.29 | 2.54 | 2.79 | 2.29 | --- | 2.79 |
| c | Lead thickness | 0.46 | --- | 0.74 | 0.36 | --- | 0.56 |

| | | | | | | | |
|-----|-------------------------|-----|-----|------|-----|-----|------|
| ANG | Foot landing angle | 0 | --- | 8 | 0 | --- | 8 |
| aaa | Lead position tolerance | --- | --- | 0.25 | --- | --- | 0.25 |

Fairchild Suzhou TO-263 is following Fairchild Standard Marketing Outline and conforming to Jedec TO-263 AB general molded package outline dimensional measurement.

Effect of Change:

This change will have no impact on any of the electrical parameters of the products involved. The product test conditions, test limits and performance will remain unchanged. The Suzhou facility will produce products with the same level of quality and reliability as the existing manufacturing sites.

Products manufactured at the Suzhou site will provide Fairchild Semiconductor the ability to meet the increase in customer demand on TO-262/263 packages. These products may be supplied from any of our qualified manufacturing locations. These sites are all TS-16949 certified.

Qualification:

The reliability summary follows.

Qual/REL Plan Numbers

Additional Qualification Data

TITLE : QUALIFICATION Summary FOR Suzhou D2 (TO-263)
BACKGROUND : TO ESTABLISH Alternate SITE ASSEMBLY CAPABILITY
SCOPE : This qualification is applicable to all MOSFETs up to 200V with 175C Tj

PROCESS OF RECORD

| PROCESS | ChipPAC | Cebu | Suzhou |
|----------------------------------|---------------------|---------------------|---------------------|
| Frame /Plating | Full Ni | Selective Ni | Selective Ni |
| Die Attach Process/Material | Pb/Sn/Ag | Pb/Sn/Ag | Pb/Sn/Ag |
| Wire bond Process/Material | Al | Al | Al |
| Molding compound | Sumittomo 6600C | Nitto MP150 | Nitto MP150 |
| Lead Finish (Material/Thickness) | Pure Sn or 82Sn18Pb | Pure Sn or 85Sn15Pb | Pure Sn or 85Sn15Pb |

Note : All Fairchild packages will be offer both lead finish options until Pb-Free Plating conversion is complete.

QUALIFICATION VEHICLES

| DEVICE | Rating |
|---------------|----------|
| FDB2532 | 150V/20V |
| HUFA75945S3ST | 200V/20V |

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| ISL9N306AP3 | 30V/20V |
| FDB6676 | 30V/20V |
| NDB7051 | 60V/20V |
| FDB8030L | 30V/20V |

QUALIFICATION Results

| TEST DESCRIPTION/CONDITION | DURATION | NBR OF LOTS | SAMPLE SIZE | Results |
|---|---------------|-------------|-------------|---------|
| PRCL @ 100°C delta Tj, with L-1 precon @260°C reflow | 8572 Cycles | 6 | 77 | 0 |
| H3TRB @ 80% VDS with L-1 precon @260°C reflow, 85°C/85%RH | 1000 hrs | 3 | 77 | 0 |
| HAST @ 80% VDS 130°C, 85% RH with L- precon @260°C reflow | 96 hrs | 3 | 77 | 0 |
| TMCL -55 to 150°C with L- precon @260°C reflow | 1000 Cycles | 6 | 77 | 0 |
| ACLV @ 121°C, 100% RH with L- precon @260°C reflow | 96hrs | 6 | 77 | 0 |
| HTRB @ max rated Tj, 80% of Rated BV, 175°C | 1000 hrs | 6 | 77 | 0 |
| HTGB @ max rated Tj, 100 % Rated VGS, 175 °C | 1000 hrs | 6 | 77 | 0 |
| PRECONDITIONING L-1 260°C reflow | JESD22-A113-B | 6 | 350 | 0 |
| MSL-1 260°C reflow | Jedec 20-B | 4 | 11 | NA |

Affected FSIDs

| | | |
|--------------|---------------|------------------|
| BA45_BBA003A | BQ45_BBM001A | CDB603AL |
| FDB15N50 | FDB2532 | FDB2552 |
| FDB2570 | FDB2572 | FDB2670 |
| FDB3632 | FDB3652 | FDB3682 |
| FDB4020P | FDB5645 | FDB5680 |
| FDB5690 | FDB6021P | FDB6030BL |
| FDB6030L | FDB6035AL | FDB6035L |
| FDB603AL | FDB6644 | FDB6644S |
| FDB6670AL | FDB6670S | FDB6676 |
| FDB6676S | FDB6690S | FDB7030BL |
| FDB7030BLS | FDB7030L | FDB7042L |
| FDB7045L | FDB8030L | FDI2532 |
| FDI3632 | FDI3652 | HUF75321S3S |
| HUF75329S3 | HUF75329S3ST | HUF75332S3ST |
| HUF75333S3 | HUF75333S3ST | HUF75337S3S |
| HUF75343S3 | HUF75343S3S | HUF75343S3ST |
| HUF75344S3ST | HUF75345S3 | HUF75345S3S |
| HUF75345S3ST | HUF75542S3S | HUF75542S3ST |
| HUF75545S3 | HUF75545S3S | HUF75545S3ST |
| HUF75623S3ST | HUF75631S3S | HUF75631S3ST |
| HUF75637S3S | HUF75637S3ST | HUF75637S3_R4895 |
| HUF75639S3 | HUF75639S3S | HUF75639S3ST |
| HUF75645S3S | HUF75645S3ST | HUF75842S3S |
| HUF75842S3ST | HUF76121S3ST | HUF76129S3 |
| HUF76129S3ST | HUF76129S3STK | HUF76132S3ST |
| HUF76137S3ST | HUF76139S3 | HUF76139S3ST |

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| HUF75542S3S | (Contract) |
| HUF75542S3ST | (Contract) |
| HUF75545S3 | (Contract) |
| HUF75545S3S | (Contract) |
| HUF75545S3ST | (Contract) |
| HUF75623S3ST | (Contract) |
| HUF75631S3S | (Contract) |
| HUF75631S3ST | (Contract) |
| HUF75637S3S | (Contract) |
| HUF75637S3ST | (Contract) |
| HUF75639S3 | (Contract) |
| HUF75639S3S | (Contract) |
| HUF75639S3ST | (Contract) |
| HUF75645S3S | (Contract) |
| HUF75645S3ST | (Contract) |
| HUF75842S3S | (Contract) |
| HUF75842S3ST | (Contract) |
| HUF76121S3ST | (Contract) |
| HUF76129S3 | (Contract) |
| HUF76129S3ST | (Contract) |
| HUF76129S3STK | (Contract) |
| HUF76132S3ST | (Contract) |
| HUF76137S3ST | (Contract) |
| HUF76139S3 | (Contract) |
| HUF76139S3ST | (Contract) |
| HUF76143S3 | (Contract) |
| HUF76143S3S | (Contract) |
| HUF76143S3ST | (Contract) |
| HUF76145S3 | (Contract) |
| HUF76145S3S | (Contract) |
| HUF76145S3ST | (Contract) |
| HUF76419S3S | (Contract) |
| HUF76419S3ST | (Contract) |
| HUF76429S3S | (Contract) |
| HUF76429S3ST | (Contract) |
| HUF76432S3S | (Contract) |
| HUF76437S3S | (Contract) |
| HUF76437S3ST | (Contract) |
| HUF76439S3S | (Contract) |
| HUF76439S3ST | (Contract) |
| HUF76445S3S | (Contract) |
| HUF76445S3ST | (Contract) |
| HUF76633S3S | (Contract) |
| HUF76633S3ST | (Contract) |
| HUF76639S3S | (Contract) |
| HUF76639S3ST | (Contract) |
| HUF76645S3S | (Contract) |
| HUF76645S3ST | (Contract) |
| ISL9N302AS3 | (Contract) |
| ISL9N302AS3ST | (Contract) |
| ISL9N303AS3 | (Contract) |
| ISL9N303AS3ST | (Contract) |
| ISL9N304AS3ST | (Contract) |
| ISL9N306AS3ST | (Contract) |
| ISL9N307AS3ST | (Contract) |
| ISL9N308AS3ST | (Contract) |
| ISL9N310AS3 | (Contract) |
| ISL9N310AS3ST | (Contract) |
| ISL9N312AS3ST | (Contract) |
| ISL9N322AS3ST | (Contract) |
| NDB4050L | (Contract) |
| NDB4060 | (Contract) |
| NDB5060L | (Contract) |
| NDB6020P | (Contract) |

| | | |
|----------------------------|---------------|------------|
| | NDB6030L | (Contract) |
| | NDB6030PL | (Contract) |
| | NDB6060L | (Contract) |
| | NDB7051 | (Contract) |
| | NDB7052L | (Contract) |
| | NDB7060 | (Contract) |
| | RF1S40N10SM9A | (Contract) |
| | RF1S50N06SM9A | (Contract) |
| | RF1S640SM | (Contract) |
| | RF1S640SM9A | (Contract) |
| | RF3S49092SM9A | (Contract) |
| EBV EURO NON STD / GERMANY | FDB2670 | (Contract) |
| | FDB3632 | (Contract) |
| | FDB3652 | (Contract) |
| | FDB3682 | (Contract) |
| | FDB6644S | (Contract) |
| | FDB6670S | (Contract) |
| | FDB6676S | (Contract) |
| | FDB6690S | (Contract) |
| | FDB703 0BLS | (Contract) |
| | FDI3632 | (Contract) |
| | FDI3652 | (Contract) |
| | HUF75639S3ST | |
| | HUF76145S3S | (Contract) |
| | HUF76429S3ST | |
| | ISL9N302AS3 | (Contract) |
| | ISL9N302AS3ST | (Contract) |
| | ISL9N303AS3 | (Contract) |
| | ISL9N303AS3ST | (Contract) |
| | ISL9N306AS3ST | (Contract) |
| | RF1S50N06SM9A | (Contract) |
| EBV \USD | FDB2670 | (Contract) |
| | FDB3632 | (Contract) |
| | FDB3652 | (Contract) |
| | FDB3682 | (Contract) |
| | FDB6644S | (Contract) |
| | FDB6670S | (Contract) |
| | FDB6676S | (Contract) |
| | FDB6690S | (Contract) |
| | FDB7030BLS | (Contract) |
| | FDI3632 | (Contract) |
| | FDI3652 | (Contract) |
| | ISL9N302AS3 | (Contract) |
| | ISL9N302AS3ST | (Contract) |
| | ISL9N303AS3 | (Contract) |
| | ISL9N303AS3ST | (Contract) |
| | ISL9N306AS3ST | (Contract) |