



Date Created: 1/27/2004

Date Issued: 2/24/2004

PCN # 20034307-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 Type: Assembly Process

Effectivity

Expected 1st Device Shipment Date: 4/12/2004
Earliest Year/Work Week of Changed Product: 0416
(Note: Package marking may differ from this format)

Product ID (Description):

6-pin,Black Package-Phototransistor output; DC sensing input
6-pin,Black Package-Phototransistor output ; Low current DC sensing input

6-pin,Black Package-Phototransistor output ; AC sensing input
 6-pin,Black Package-High Voltage Phototransistor output; DC sensing input
 6-pin,Black Package-Photodarlington output; DC sensing input
 6-pin,Black Package-High Voltage Photodarlington output; DC sensing input
 6-pin,Black Package-10Mbit/s High-speed Logic to Logic (Optologic) output; DC Threshold sensing input
 6-pin,Black Package-Photo SCR output ; DC Threshold sensing input
 6-pin,Black Package-Bilateral Analog FET output ;DC sensing input

8-pin,Black Package-Phototransistor output; DC sensing input
 8-pin,Black Package-High-Gain Split Photodarlington output; Low current DC sensing input
 8-pin,Black Package-Logic output; AC Threshold sensing input
 8-pin,Black Package- AC/DC to Logic Interface; AC Threshold sensing input
 8-pin,Black Package-1Mbit/s High-speed Transistor output; DC sensing input
 8-pin,Black Package-10Mbit/s High-speed Logic Gate output; DC Threshold sensing input

8-pin,White Package-Optically Isolated Error Amplifier; DC sensing input with volatage reference

Description of Change:

To qualify solder plating process as the alternative lead coating process for current solder dipping process.

Effect of Change:

No change in fit, form and function

Qualification:

Result shown positive, no failure was detected. Hence, solder plating process is qualified as the alternative lead coating process for current solder dipping process.

Qual/REL Plan Numbers

Additional Qualification Data

| Package | | | 6-pin DIP ,Black package | Result |
|-------------|---------------------|----------|--------------------------|--------|
| Stress test | Industrial Standard | Duration | Sample Size | |

| | | | | |
|-----------------------------------------------|--------------|--------------------|----|--------|
| Non Pre-Conditioning test | | | | |
| H3TRB Ta = 85°C, Bias per product types | JESD22-A101B | 168, 500, 1000 hrs | 22 | Passed |
| Autoclave @ 121°C, 100%RH | JESD22-110-B | 48, 96 hrs | 22 | Passed |
| RSDH (SHT) Ta =260°C | JESD22-B106 | 10 sec | 22 | Passed |
| Solderability Ta = 245°C | JESD22-B102 | 5 sec | 22 | Passed |

| Package | | | 8-pin DIP, Black package | Result |
|-----------------------------------------------|---------------------|--------------------|--------------------------|--------|
| Stress test | Industrial Standard | Duration | Sample Size | |
| Non Pre-Conditioning test | | | | |
| H3TRB Ta = 85°C, Bias per product types | JESD22-A101B | 168, 500, 1000 hrs | 22 | Passed |
| Autoclave @ 121°C, 100%RH | JESD22-110-B | 48, 96 hrs | 22 | Passed |
| RSDH (SHT) Ta =260°C | JESD22-B106 | 10 sec | 22 | Passed |
| Solderability Ta = 245°C | JESD22-B102 | 5 sec | 22 | Passed |

Notes:

- The TMCL test is not required, as there is no change in the internal construction.
- 8-pin DIP, black package will be the qual vehicle for both 8-pin white and black package. This is because leadframe materials and plating scheme of both packages are the same.

Affected FSIDs

| | | |
|----------|----------|----------|
| 4N25 | 4N25300 | 4N25300W |
| 4N253S | 4N253SD | 4N25S |
| 4N25SD | 4N25W | 4N26 |
| 4N26300 | 4N26300W | 4N263S |
| 4N263SD | 4N26S | 4N26SD |
| 4N26W | 4N27 | 4N27300 |
| 4N27300W | 4N273S | 4N273SD |
| 4N27S | 4N27SD | 4N27W |
| 4N28 | 4N28300 | 4N28300W |
| 4N283S | 4N283SD | 4N28S |
| 4N28SD | 4N28W | 4N29 |

| | | |
|--------------|--------------|-------------|
| 4N29300 | 4N29300W | 4N293S |
| 4N293SD | 4N29S | 4N29SD |
| 4N29W | 4N30 | 4N30300 |
| 4N30300W | 4N303S | 4N303SD |
| 4N30S | 4N30SD | 4N30W |
| 4N31 | 4N31300 | 4N31300W |
| 4N313S | 4N313SD | 4N31S |
| 4N31SD | 4N31W | 4N32 |
| 4N32300 | 4N32300W | 4N323S |
| 4N323SD | 4N32S | 4N32SD |
| 4N32W | 4N33 | 4N33300 |
| 4N33300W | 4N333S | 4N333SD |
| 4N33S | 4N33SD | 4N33W |
| 4N35 | 4N35300 | 4N35300W |
| 4N353S | 4N353SD | 4N35S |
| 4N35SD | 4N35W | 4N36 |
| 4N36300 | 4N36300W | 4N363S |
| 4N363SD | 4N36S | 4N36SD |
| 4N36W | 4N37 | 4N37300 |
| 4N37300W | 4N373S | 4N373SD |
| 4N37S | 4N37SD | 4N37W |
| 4N38 | 4N38300 | 4N38300W |
| 4N383S | 4N383SD | 4N38S |
| 4N38SD | 4N38W | 4N39 |
| 4N39300 | 4N39300W | 4N393S |
| 4N393SD | 4N39S | 4N39SD |
| 4N39W | 4N40 | 4N40300 |
| 4N40300W | 4N403S | 4N403SD |
| 4N40S | 4N40SD | 4N40W |
| 6N135 | 6N135S | 6N135SD |
| 6N135SDV | 6N135SV | 6N135V |
| 6N135W | 6N135WV | 6N136 |
| 6N136S | 6N136SD | 6N136SDV |
| 6N136SV | 6N136V | 6N136W |
| 6N136WV | 6N137 | 6N137S |
| 6N137SD | 6N137SDV | 6N137SV |
| 6N137V | 6N137W | 6N137WV |
| 6N138 | 6N138S | 6N138SD |
| 6N138SDV | 6N138SV | 6N138V |
| 6N138W | 6N138WV | 6N139 |
| 6N1393S | 6N139S | 6N139SD |
| 6N139SDV | 6N139SV | 6N139V |
| 6N139W | 6N139WV | 74OL6000 |
| 74OL6000300 | 74OL6000300W | 74OL60003S |
| 74OL60003SD | 74OL6000S | 74OL6000SD |
| 74OL6000W | 74OL6001 | 74OL6001300 |
| 74OL6001300W | 74OL60013S | 74OL60013SD |

| | | |
|-------------|--------------|--------------|
| 740L6001S | 740L6001SD | 740L6001W |
| 740L6010 | 740L6010300 | 740L6010300W |
| 740L60103S | 740L60103SD | 740L6010S |
| 740L6010SD | 740L6010W | 740L6011 |
| 740L6011300 | 740L6011300W | 740L60113S |
| 740L60113SD | 740L6011S | 740L6011SD |
| 740L6011W | CNX35U | CNX35U300 |
| CNX35U300W | CNX35U3S | CNX35U3SD |
| CNX35US | CNX35USD | CNX35UW |
| CNX36U | CNX36U300 | CNX36U300W |
| CNX36U3S | CNX36U3SD | CNX36US |
| CNX36USD | CNX36UW | CNX38U |
| CNX38U300 | CNX38U300W | CNX38U3S |
| CNX38U3SD | CNX38US | CNX38USD |
| CNX38UW | CNX39U | CNX39U300 |
| CNX39U300W | CNX39U3S | CNX39U3SD |
| CNX39US | CNX39USD | CNX39UW |
| CNX48U | CNX48U300 | CNX48U300W |
| CNX48U3S | CNX48U3SD | CNX48US |
| CNX48USD | CNX48UW | CNX82A300 |
| CNX82A300W | CNX82AW | CNX82A_5387 |
| CNX82A_5516 | CNX82A_5546 | CNX83A300W |
| CNX83AW | CNX83A_5534 | CNY171 |
| CNY171300 | CNY171300W | CNY1713S |
| CNY1713SD | CNY171S | CNY171SD |
| CNY171W | CNY172 | CNY172300 |
| CNY172300W | CNY1723S | CNY1723SD |
| CNY172R2 | CNY172S | CNY172SD |
| CNY172W | CNY173 | CNY173300 |
| CNY173300W | CNY1733S | CNY1733SD |
| CNY173S | CNY173SD | CNY173W |
| CNY174 | CNY174300 | CNY174300W |
| CNY1743S | CNY1743SD | CNY174S |
| CNY174SD | CNY174W | CNY17F1 |
| CNY17F1300 | CNY17F1300W | CNY17F13S |
| CNY17F13SD | CNY17F1S | CNY17F1SD |
| CNY17F1W | CNY17F2 | CNY17F2300 |
| CNY17F2300W | CNY17F23S | CNY17F23SD |
| CNY17F2S | CNY17F2SD | CNY17F2W |
| CNY17F3 | CNY17F3300 | CNY17F3300W |
| CNY17F33S | CNY17F33SD | CNY17F33SR2 |
| CNY17F3S | CNY17F3SD | CNY17F3SR2 |
| CNY17F3W | CNY17F4 | CNY17F4300 |
| CNY17F4300W | CNY17F43S | CNY17F43SD |
| CNY17F4S | CNY17F4SD | CNY17F4W |
| FOD250L | FOD250LS | FOD250LSD |
| FOD250LSDV | FOD250LSV | FOD250LT |

FOD250LTV
FOD260L
FOD270LSD
FOD270LT
FOD270LW
FOD2711SD
FOD2711T
FOD2741A
FOD2741ASDV
FOD2741ATV
FOD2741BS
FOD2741BSV
FOD2741BV
FOD2741CSD
FOD2741CT
H11A1
H11A13S
H11A1SD
H11A2300
H11A23SD
H11A2W
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H11A3S
H11A4
H11A43S
H11A4SD
H11A5300
H11A53SD
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H11AAX_5621
H11AAX_9004
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H11AD6X_5402
H11AD6X_5405D

FOD250LV
FOD270L
FOD270LSDV
FOD270LTV
FOD2711
FOD2711SDV
FOD2711TV
FOD2741AS
FOD2741ASV
FOD2741AV
FOD2741BSD
FOD2741BT
FOD2741C
FOD2741CSDV
FOD2741CTV
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FOD270LS
FOD270LSV
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FOD2711S
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FOD2711V
FOD2741ASD
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FOD2741BSDV
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MCT271SD
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MCT2EW
MCT2W
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MCT5200S
MCT5201
MCT52013S
MCT5201SD
MCT5210300
MCT52103SD
MCT5210W
MCT5211300W
MCT5211S
MCT6
MCT61SD
MCT62S
MCT66
MCT6W
MCT9001SD
MOC119300
MOC1193SD
MOC119W
MOC3011SD
MOC3021
MOC3023300
MOC3023S
MOC8020300
MOC80203SD
MOC8020W
MOC8021300W
MOC8021S

MCT210300
MCT2103SD
MCT210W
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MCT2200S
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MCT22013S
MCT2201SD
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MCT22023SD
MCT2202W
MCT23S
MCT271300
MCT2713SD
MCT271W
MCT2E300W
MCT2ES
MCT2S
MCT5200
MCT52003S
MCT5200SD
MCT5201300
MCT52013SD
MCT5201W
MCT5210300W
MCT5210S
MCT5211
MCT52113S
MCT5211SD
MCT61
MCT61W
MCT62SD
MCT6S
MCT9001
MCT9001W
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MCT271300W
MCT271S
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MCT2E3S
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MCT5201S
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MCT62
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MOC8021W

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| MOC8204 | MOC8204300 | MOC8204300W |
| MOC82043S | MOC82043SD | MOC8204S |
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SL55043S
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