



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	

<b>Non Pre-Conditioning test</b>				
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	
<b>Non Pre-Conditioning test</b>				
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  
4N293SD  
4N29W  
4N30300W  
4N30S  
4N31  
4N313S  
4N31SD  
4N32300  
4N323SD  
4N32W  
4N33300W  
4N33S  
4N35  
4N353S  
4N35SD  
4N36300  
4N363SD  
4N36W  
4N37300W  
4N37S  
4N38  
4N383S  
4N38SD  
4N39300  
4N393SD  
4N39W  
4N40300W  
4N40S  
6N135  
6N135SDV  
6N135W  
6N136S  
6N136SV  
6N136WV  
6N137SD  
6N137V  
6N138  
6N138SDV  
6N138W  
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6N139SDV  
6N139W  
74OL6000300  
74OL60003SD  
74OL6000W  
74OL6001300W

4N29300W  
4N29S  
4N30  
4N303S  
4N30SD  
4N31300  
4N313SD  
4N31W  
4N32300W  
4N32S  
4N33  
4N333S  
4N33SD  
4N35300  
4N353SD  
4N35W  
4N36300W  
4N36S  
4N37  
4N373S  
4N37SD  
4N38300  
4N383SD  
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4N39S  
4N40  
4N403S  
4N40SD  
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6N135SV  
6N135WV  
6N136SD  
6N136V  
6N137  
6N137SDV  
6N137W  
6N138S  
6N138SV  
6N138WV  
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6N139WV  
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74OL6000S  
74OL6001  
74OL60013S

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4N30300  
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4N323S  
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4N333SD  
4N33W  
4N35300W  
4N35S  
4N36  
4N363S  
4N36SD  
4N37300  
4N373SD  
4N37W  
4N38300W  
4N38S  
4N39  
4N393S  
4N39SD  
4N40300  
4N403SD  
4N40W  
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6N135V  
6N136  
6N136SDV  
6N136W  
6N137S  
6N137SV  
6N137WV  
6N138SD  
6N138V  
6N139  
6N139SD  
6N139V  
74OL6000  
74OL60003S  
74OL6000SD  
74OL6001300  
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  
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H11A1SD  
H11A2300  
H11A23SD  
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H11A3300W  
H11A3S  
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FOD270LTV  
FOD2711  
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FOD2711TV  
FOD2741AS  
FOD2741ASV  
FOD2741AV  
FOD2741BSD  
FOD2741BT  
FOD2741C  
FOD2741CSDV  
FOD2741CTV  
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HCPL3700W  
HCPL4502S  
HCPL4502SV  
HCPL4502WV

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HCPL2731WV  
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HCPL3700SV  
HCPL3700WV  
HCPL4502SD  
HCPL4502V  
MCT2

MCT210  
MCT2103S  
MCT210SD  
MCT2200300  
MCT22003SD  
MCT2200W  
MCT2201300W  
MCT2201S  
MCT2202  
MCT22023S  
MCT2202SD  
MCT2300W  
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