



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:

Name: Karuppiah, Jayaselan
E-Mail: jayaselan@klmail.fairchildsemi.com
Phone:

PCN Originator

Name: Ang, CK
E-mail: ckang@klmail.fairchildsemi.com
Phone:

REL Engineer

Name: Yap, WT
E-mail: wtyap@klmail.fairchildsemi.com
Phone: +(60)3 7876 1211 x143

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
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
6N1393S
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
4N38W
4N39300W
4N39S
4N40
4N403S
4N40SD
6N135S
6N135SV
6N135WV
6N136SD
6N136V
6N137
6N137SDV
6N137W
6N138S
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6N138WV
6N139S
6N139SV
6N139WV
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74OL6000S
74OL6001
74OL60013S

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4N303SD
4N30W
4N31300W
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4N32
4N323S
4N32SD
4N33300
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
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H11A13S
H11A1SD
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FOD2741AV
FOD2741BSD
FOD2741BT
FOD2741C
FOD2741CSDV
FOD2741CTV
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MCT6W
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MOC1193SD
MOC119W
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MOC8021SD

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MCT52003SD
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MCT52113SD
MCT5211W
MCT61S
MCT62
MCT62W
MCT6SD
MCT9001S
MOC119
MOC1193S
MOC119SD
MOC3011
MOC3020
MOC3023
MOC30233S
MOC8020
MOC80203S
MOC8020SD
MOC8021300
MOC80213SD
MOC8021W

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MOC8050300	MOC8050300W	MOC80503S
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MOC8050W	MOC8080	MOC8080300
MOC8080300W	MOC80803S	MOC80803SD
MOC8080S	MOC8080SD	MOC8080W
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MOC81013S	MOC81013SD	MOC8101S
MOC8101SD	MOC8101W	MOC8102
MOC8102300	MOC8102300W	MOC81023S
MOC81023SD	MOC81023SDL	MOC8102S
MOC8102SD	MOC8102W	MOC8103
MOC8103300	MOC8103300W	MOC81033S
MOC81033SD	MOC8103S	MOC8103SD
MOC8103W	MOC8104	MOC8104300
MOC8104300W	MOC81043S	MOC81043SD
MOC8104S	MOC8104SD	MOC8104W
MOC8105	MOC8105300	MOC8105300W
MOC81053S	MOC81053SD	MOC8105S
MOC8105SD	MOC8105W	MOC8106
MOC8106300	MOC8106300W	MOC81063S
MOC81063SD	MOC81063SR2	MOC8106S
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MOC8107300	MOC8107300W	MOC81073S
MOC81073SD	MOC8107S	MOC8107SD
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MOC8108S	MOC8108SD	MOC8108W
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MOC8111SD	MOC8111W	MOC8112
MOC8112300	MOC8112300W	MOC81123S
MOC81123SD	MOC8112S	MOC8112SD
MOC8112W	MOC8113	MOC8113300
MOC8113300W	MOC81133S	MOC81133SD
MOC8113S	MOC8113SD	MOC8113W
MOC8204	MOC8204300	MOC8204300W
MOC82043S	MOC82043SD	MOC8204S
MOC8204SD	MOC8204W	SL5500
SL5500300	SL5500300W	SL55003S
SL55003SD	SL5500S	SL5500SD
SL5500W	SL5501	SL5501300
SL5501300W	SL55013S	SL55013SD
SL5501S	SL5501SD	SL5501W
SL5504	SL5504300	SL5504300W

SL55043S
SL5504SD
SL5511300
SL55113SD
SL5511W
SL5582W
TIL111
TIL1113S
TIL111SD
TIL113300
TIL1133SD
TIL113W

SL55043SD
SL5504W
SL5511300W
SL5511S
SL5582
SL5583300W
TIL111300
TIL1113SD
TIL111W
TIL113300W
TIL113S

SL5504S
SL5511
SL55113S
SL5511SD
SL5582300W
SL5583W
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TIL113
TIL1133S
TIL113SD