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**PRODUCT/PROCESS CHANGE NOTIFICATION**  
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**28-AUG-2001**

**SUBJECT: ON Semiconductor Product/Process Change Notification #11703**

**TITLE: T0220 and D2pak 5 Lead Change To Copper Wirebond**

**EFFECTIVE DATE: 27-Oct-2001**

**AFFECTED CHANGE CATEGORY: Subcontractor Assembly Site and Assembly Process**

**AFFECTED PRODUCT DIVISION: Analog Products**

**ADDITIONAL RELIABILITY DATA:** Available

Contact your local ON Semiconductor Sales Office or Joe Duffalo <FFBH9W@onsemi.com >

**SAMPLES:** Contact your local ON Semiconductor Sales Office or  
Mouayed Saleh <R12646@onsemi.com>

**FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:**

Contact Sales Office or Mouayed Saleh <R12646@onsemi.com>

**DISCLAIMER:**

Initial Product/Process Change Notification (IPCEN) - First Notification distributed to customers.  
Distributed at least 120 days from the effective date of the change.

Final Product/Process Change Notification (FPCEN) - Final Notification completing the notification  
process. Distributed at least 60 days from the effective date of the change. ON Semiconductor will  
consider this change approved unless specific conditions of acceptance are provided in writing within  
30 days of receipt of this notice. To do so, contact your local ON Semiconductor Sales Office.

**DESCRIPTION AND PURPOSE:**

This Product Change Notice (PCN) is to notify customers of the intent to change the assembly  
manufacturing flow for the 5 lead T0220 and 5 lead D2Pak package. This line is located at the  
Tesla manufacturing facility in Rosnov, Czech Republic.

Manufacturing change for the 5 lead T0220 (Case 314B, 314D) and 5 Lead D2Pak (Case 936A)  
package.

- 1) Change from Gold wirebond to Copper wirebond
- 2) Change from selective Ni plated copper leadframe with Silver post to 100% Copper leadframe

This new assembly process has been previously qualified on the 3 lead T0220 assembly line and has  
been in production for several years. This change is to consolidate and standardize all T0220 products  
into one flow.

Full reliability testing has been completed for this change and is attached to this notice.

**QUALIFICATION PLAN:** See Reliability Data



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**RELIABILITY DATA SUMMARY:**

Test Name	Test	Test Conditions	Accept	Read Point	SS	Lots
High Temp Op Life	HTOL	Ta = 150	c = 0	504 Hr	77	3
High Temp Bake	HTB	Ta = 150 C	c = 0	504 Hr	77	3
Preconditioning (for D2Pak only)	PC	JEDEC Moisture Preconditioning	c = 0	see AC; TC		
Temperature Cycle	TC	-65 DegC - + 150 DegC 500 Cycles	c = 0	500 Cycles	77	3
Autoclave	AC	Ta = 121 DegC, 100% RH / 15 PSIG for 96 Hrs	c = 0	96 Hr	77	3

Testing has been completed on the following devices:

LM2931CT	2 lots	0 Rejects / 154	All Tests
LM2931ACD2TR4	3 lots	0 Rejects / 231	All Tests
MC33267T2TR4	1 lot	0 Rejects / 77	All Tests

**ELECTRICAL CHARACTERISTIC SUMMARY:**

Electrical yield analysis showed no statistical differences in lot yields.

**CHANGED PART IDENTIFICATION:**

There will be no change to the standard part type markings. Product Date Codes can be used to identify product processed with the new assembly flow. Estimated date code for implementation of this change: 4401.

**AFFECTED DEVICE LIST (WITHOUT SPECIALS)**

**PART**

LM2575D2T-005  
 LM2575D2T-012  
 LM2575D2T-015  
 LM2575D2T-12R4  
 LM2575D2T-15R4  
 LM2575D2T-3.3  
 LM2575D2T-3.3R4  
 LM2575D2T-5R4  
 LM2575D2T-ADJ  
 LM2575D2T-ADJR4  
 LM2575T-005  
 LM2575T-012  
 LM2575T-015  
 LM2575T-3.3  
 LM2575T-ADJ  
 LM2575TV-005  
 LM2575TV-012  
 LM2575TV-015  
 LM2575TV-3.3  
 LM2575TV-ADJ  
 LM2576D2T-005  
 LM2576D2T-012  
 LM2576D2T-015  
 LM2576D2T-3.3

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LM2576D2T-ADJ  
LM2576D2T-ADJR4  
LM2576D2TR4-005  
LM2576D2TR4-3.3  
LM2576T-005  
LM2576T-012  
LM2576T-015  
LM2576T-3.3  
LM2576T-ADJ  
LM2576TV-005  
LM2576TV-012  
LM2576TV-015  
LM2576TV-3.3  
LM2576TV-ADJ  
LM2931ACD2TR4  
LM2931ACTV  
LM2931CD2T  
LM2931CD2TR4  
LM2931CT  
LM2935D2T  
LM2935T  
MC33166D2T  
MC33166D2TR4  
MC33166T  
MC33166TH  
MC33166TV  
MC33167D2T  
MC33167T  
MC33167TH  
MC33167TV  
MC33267D2T  
MC33267D2TR4  
MC33267T  
MC33267TH  
MC33267TV  
MC33566D2T-001  
MC33566D2T-1RK  
MC34166D2T  
MC34166D2TR4  
MC34166T  
MC34166TH  
MC34166TV  
MC34167D2T  
MC34167T  
MC34167TH  
MC34167TV  
TCM2575-12.0VAT  
TCM2575-12.0VBV  
TCM2575-12.0VRT  
TCM2575-12VRTTR  
TCM2575-15.0VAT  
TCM2575-15.0VBV  
TCM2575-15.0VRT  
TCM2575-15VRTTR  
TCM2575-3.3VAT  
TCM2575-3.3VBV



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TCM2575-3.3VRT  
TCM2575-33VRTTR  
TCM2575-5.0VAT  
TCM2575-5.0VBV  
TCM2575-5.0VRT  
TCM2575-50VRTTR  
TCM2575VAT  
TCM2575VBV  
TCM2575VRT  
TCM2575VRTTR  
TCM2576-12.0VAT  
TCM2576-12.0VBV  
TCM2576-12.0VRT  
TCM2576-15.0VAT  
TCM2576-15.0VRT  
TCM2576-3.3VAT  
TCM2576-3.3VRT  
TCM2576-33VRTTR  
TCM2576-5.0VAT  
TCM2576-5.0VBV  
TCM2576-5.0VRT  
TCM2576-50VRTTR  
TCM2576VAT  
TCM2576VBV  
TCM2576VRT  
TCM2576VRTTR  
TCM33166EAT  
TCM33166EBV  
TCM33166ERT  
TCM33167EAT  
TCM33167EBV  
TCM33167ERT