



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

30-MAY-2002

SUBJECT: ON Semiconductor Final Product/Process Change Notification #12461

TITLE: Final Notification - Motorola BMC to TESLA: MC33268, MC33269, MC3403, MC34074

EFFECTIVE DATE: 29-Jul-2002

AFFECTED CHANGE CATEGORY: On Semiconductor Fab Site

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 Alan Garlington <RPR180@onsemi.com>

FOR ANY QUESTIONS CONCERNING THIS NOTIFICATION:

Contact Sales Office or Alan Garlington <RPR180 @onsemi.com>

DISCLAIMER:

Final Product/Process Change Notification (FPCN) - 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 is a Final PCN (Product Change Notice) to notify customers of the qualification of certain Analog devices being transferred to the Tesla Wafer Fab in the Czech Republic. An initial PCN (# 11528) was published on 19 July 2001 providing information on all the devices being transferred and the overall scope of the program.

The devices listed below have been fully qualified and are now ready to transfer to Tesla from the Motorola BMC wafer fab. The existing design database in use at BMC was transferred to Tesla with no change to the functional circuit design. No change in the device functionality nor electrical distributions have been found but it is recommended that customers evaluate the devices in their applications to insure proper operation.

Samples are available upon request. At the expiration of this PCN (60 Days), fabrication of these devices will occur at either the Tesla Wafer Fab or the BMC Fab depending on capacity and demand requirements.



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RELIABILITY DATA SUMMARY:

Technology	Flow	Device Types	Fab	Test Conditions	Rej	Sample Size
Std Linear	EPI 85/92	MC33033P	Tesla	HTOL 150C;Biased 1008 Hrs	0	240
Std Linear	EPI 85/92	MC33033P	Tesla	TC -65C to +150C 1000 Cyc	0	240
Std Linear	EPI 85/92	MC33033P	Tesla	HTS 150C; No Bias 1008 Hrs	0	80
Std Linear	EPI 85/92	MC33033P	Tesla	AC 121C; 100% RH 144 Hrs	0	240
Std Linear	EPI 85/92	MC33064D	Tesla	HTOL 150C; Biased 1008 Hrs	0	240
Std Linear	EPI 85/92	MC33064D	Tesla	TC -65C to +150C 1000 Cyc	0	240
Std Linear	EPI 85/92	MC33064D	Tesla	HTS 150C; No Bias 1008 Hrs	0	80
Std Linear	EPI 85/92	MC33064D	Tesla	AC 121C; 100% RH 144 Hrs	0	240
Std Linear	Epi 85 DL	MC44603A	Tesla	HTOL 125C; Biased 1000 Hr	0	231
Std Linear	Epi 85 DL	MC44603A	Tesla	TC -65C to +150C 500 Cyc	0	231
Std Linear	Epi 85 DL	MC44603A	Tesla	AC 121C;100%RH;15psi 96 Hrs	0	231
Std Linear	Epi 85 DL	MC44603A	Tesla	HAST 130C;85%RH biased 96Hrs	0	231
Std Linear	Epi 78/79	MC1413D	Tesla	HTOL 150C; Biased 1008 Hrs	0	154
Std Linear	Epi 78/79	MC1413	Tesla	TC -65C to +150C 500 Cyc	0	154
Std Linear	Epi 78/79	MC1413	Tesla	AC 121C; 100% RH 96 Hrs	0	154
Std Linear	Epi 78/79	MC1413	Tesla	HAST 130C;85%RH;Biased 96 Hrs	0	154
Std Linear	Epi 78/79	MC1413	Tesla	THB 85C;85%RH;Biased 1008 Hrs	0	154
Std Linear	Epi 78/79	MC1413	Tesla	HTS 150C;No Bias 1008 Hrs	0	154
Std Linear	Epi 78/79	MC33079P	Tesla	HTOL 150C; Biased 1008 Hrs	0	240
Std Linear	Epi 78/79	MC33079P	Tesla	TC -65C to +150C 1000 Cyc	0	240
Std Linear	Epi 78/79	MC33079P	Tesla	HTS 150C; No Bias 1008 Hrs	0	240
Std Linear	Epi 78/79	MC33079P	Tesla	AC 121C; 100% RH 96 Hrs	0	240
Std Linear	Epi 78/79	MC33079P	Tesla	HAST 130C;85%RH;Biased 96 Hrs	0	240
Std Linear	Epi 78/79	MC33079P	Tesla	THB 85C;85%RH;Biased 1008 Hrs	0	240
Std Linear	Epi 78/79	UC3843AN	Tesla	HTOL 150C; Biased 1008 Hrs	0	240
Std Linear	Epi 78/79	UC3843AN	Tesla	TC -65C to +150C 1000 Cyc	0	240
Std Linear	Epi 78/79	UC3843AN	Tesla	HTS 150C; No Bias 1008 Hrs	0	240
Std Linear	Epi 78/79	UC3843AN	Tesla	AC 121C; 100% RH 96 Hrs	0	240
Std Linear	Epi 78/79	UC3843AN	Tesla	HAST 130C;85%RH;Biased 96 Hrs	0	240
Std Linear	Epi 78/79	UC3843AN	Tesla	THB 85C;85%RH;Biased 1008 Hrs	0	240
Std Linear	Epi 85 TF	MC33269T	Tesla	HTOL 125C; Biased 500 Cyc	0	231
Std Linear	Epi 85 TF	MC33269T	Tesla	TC -65 to +150C 500 Cyc	0	231
Std Linear	Epi 44	MC34074D	Tesla	HTOL 150C; Biased 504 Hrs	0	234
Std Linear	Epi 44	MC34074D	Tesla	HAST 131C;85%RH;Biased 96Hrs	0	237
Std Linear	Epi 44	MC34074D	Tesla	TC -65 to +150C 500 Cyc	0	236



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ELECTRICAL CHARACTERISTIC SUMMARY:

MC33269T (MC33268) - 1 lot Characterization data, Major parameters

Parameter	Unit	Mean	S.D.	Min.	Max.	Specification	
						Min.	Max.
V Out (Vin=16v,Io=500ma)	V	1.248	.003	1.239	1.254	1.225	1.275
V Out (Vin=2.5v,Io=500ma)	V	1.248	.003	1.239	1.254	1.225	1.275
V Out (Vin=2.5v,Io=10ma)	V	1.248	.003	1.239	1.254	1.225	1.275
V Out (vin=11v,Io=800ma)	V	1.248	.003	1.239	1.254	1.225	1.275
Dropout Voltage(Io=500ma)	V	.922	.004	.916	.932		1.250
Load Reg (Io=10;800ma)	mV	.096	.09	0	.470		6.26
Line Reg (Vin=2,5;16,25v)	mV	.123	.114	0	.470		3.75

MC3403 -- 1 lot Characterization data, Major parameters

Parameter	Unit	Mean	S.D.	Min.	Max.	Specification	
						Min.	Max.
ID+	mA	2.654	0.012	2.625	2.673	0.0	5.0
ID-	mA	-2.697	0.012	-2.717	-2.666	-5.0	0.0
VIO	mV	1.104	0.637	-0.215	2.39	-10.0	10.0
SR+	V/uS	N/A					
SR-	V/uS	N/A					
GBW	kHz	N/A					

MC34074 -- 1 lot Characterization data, Major parameters

Parameter	Unit	Mean	S.D.	Min.	Max.	Specification	
						Min.	Max.
ID+	mA	8.474	0.048	8.395	8.627	1.0	10.0
ID-	mA	-8.523	0.047	-8.676	-8.443	-10.0	-1.0
VIO	mV	0.428	1.102	-1.983	2.494	-5.0	5.0
SR+	V/uS	11.824	0.135	11.550	12.120	8.0	40.0
SR-	V/uS	n/a					
GBW	kHz	4359.7	37.7	4300.3	4433.0	3500	10000

CHANGED PART IDENTIFICATION:

Normal assembly lot traceability codes can be used to identify the wafer fab source.

AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

- BS33269DTRK-3.3
- FMC33269D-3.3
- FMC33269DR2-3.3
- MC3303D
- MC3303DR2
- MC3303P
- MC33074AD
- MC33074ADR2
- MC33074ADTB
- MC33074ADTBR2
- MC33074AP

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MC33074D
MC33074DR2
MC33074DTB
MC33074DTBR2
MC33074P
MC33269D
MC33269D-012
MC33269D-3.3
MC33269D-5.0
MC33269DR2
MC33269DR2-012
MC33269DR2-3.3
MC33269DR2-5.0
MC33269DT
MC33269DT-012
MC33269DT-3.3
MC33269DT-5.0
MC33269DTRK
MC33269DTRK-012
MC33269DTRK-3.3
MC33269DTRK-5.0
MC33269T
MC33269T-012
MC33269T-3.3
MC33269T-5.0
MC3403D
MC3403DR2
MC3403P
MC34074AD
MC34074ADR2
MC34074AP
MC34074D
MC34074DR2
MC34074P
MC34074VD
MC34074VDR2
MC34074VP
MC34268D
MC34268DR2
MC34268DT
MC34268DTRK
MCW34074
MCW34074A
SC111013D
SC33074DR2