



FINAL PRODUCT/PROCESS CHANGE NOTIFICATION
Generic Copy

14-FEB-2002

SUBJECT: ON Semiconductor Final Product/Process Change Notification #12311

**TITLE: Final Notification - Motorola BMC to TESLA: MC33071, MC33072, MC33172,
MC33272, MC33274**

EFFECTIVE DATE: 15-Apr-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 <RPR120@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.



Final Product/Process Change Notification #12311

RELIABILITY DATA SUMMARY:

Technology	Flow	Device Types	Fab	Test	Conditions		Rej	SS
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 Hrs	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;15 psi,	96 Hrs	0	231
Std Linear	Epi 85 DL	MC44603A	Tesla	HAST	130C; 85%RH biased,	96 Hrs	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

ELECTRICAL CHARACTERISTIC SUMMARY:

MC33071/MC34071 - 1 lot Characterization data, Major parameters

Parameter	Unit	Mean	S.D.	Min.	Max	Specification	
						Min.	Max.
ID+	mA	2.139	0.024	2.086	2.191	0.2	2.8
ID-	mA	-2.157	0.024	-2.208	-2.103	-2.8	-0.2
VIO	mV	1.526	1.284	-1.241	4.020	-3.0	3.0
SR+	V/uS	10.466	0.226	10.250	10.720	8.0	40.0
SR-	V/uS	21.022	0.380	20.050	21.750	8.0	40.0
GBW	kHz	4779.0	27.7	4725.9	4825.9	3500	10000



Final Product/Process Change Notification #12311

MC33072/MC34072 - 1 lot Characterization data, Major parameters
Specification

Parameter	Unit	Mean	S.D.	Min.	Max.	Min.	Max.
ID+	mA	4.505	0.028	4.443	4.561	0.2	5.0
ID-	mA	-4.536	0.027	-4.596	-4.476	-5.0	-0.2
VIO	mV	0.069	0.574	-2.276	0.852	-3.0	3.0
SR+	V/uS	10.099	0.054	9.990	10.230	8.0	40.0
SR-	V/uS	15.114	0.084	14.990	15.350	8.0	40.0
GBW	kHz	5052.7	22.8	5003.3	5102.0	3500	10000

MC33172 -- 1 lot Characterization data, Major parameters

Parameter	Unit	Mean	S.D.	Min.	Max.	Min.	Max.
ID+	mA	0.441	0.003	0.433	0.446	0.1	0.5
ID-	mA	-0.442	0.003	-0.448	-0.435	-0.5	-0.1
VIO	mV	0.476	0.798	-1.464	1.877	-4.5	4.5
SR+	V/uS	2.384	0.038	2.29	2.45	1.6	7
SR-	V/uS	6.254	0.113	6.08	6.48	1.6	10
GBW	kHz	2328.0	33.89	2258.755	2407.822	1400	7000

MC33272 -- 1 lot Characterization data, Major parameters

Parameter	Unit	Mean	S.D.	Min.	Max.	Min.	Max.
ID+	mA	4.578	0.031	4.513	4.626	1.0	5.5
ID-	mA	-4.580	0.031	-4.627	-4.514	-5.5	-1.0
VIO	mV	-0.036	0.089	-0.178	0.153	-1.0	1.0
SR+	V/uS	11.497	0.120	11.300	11.800	8.0	24.0
SR-	V/uS	11.471	0.102	11.300	11.700	8.0	24.0
GBW	kHz	26894.5	137.2	26462.0	27279.0	17000	40000

MC33274 -- 1 lot Characterization data, Major parameters

Parameter	Unit	Mean	S.D.	Min.	Max.	Min.	Max.
ID+	mA	9.287	0.126	8.967	9.481	1	11
ID-	mA	-9.287	0.126	-0.480	-8.967	-11	-1
VIO	mV	0.125	0.189	-0.266	0.419	-1	1
SR+	V/uS	11.894	0.147	11.600	12.200	8	24
SR-	V/uS	13.549	0.148	13.200	13.900	8	24
GBW	kHz	26801.7	231.1	26267.	27250.0	17000	40000

CHANGED PART IDENTIFICATION:

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



Final Product/Process Change Notification #12311

AFFECTED DEVICE LIST (WITHOUT SPECIALS):

PART

FMC33172D
FMC33172DR2
MC33071AD
MC33071ADR2
MC33071AP
MC33071D
MC33071DR2
MC33071P
MC33072AD
MC33072ADR2
MC33072AP
MC33072D
MC33072DR2
MC33072P
MC33172D
MC33172DR2
MC33172P
MC33172VD
MC33172VDR2
MC33272AD
MC33272ADR2
MC33272AP
MC33274AD
MC33274ADR2
MC33274AP
MC34071AD
MC34071ADR2
MC34071AP
MC34071D
MC34071DR2
MC34071P
MC34072AD
MC34072ADR2
MC34072AP
MC34072D
MC34072DR2
MC34072DR2-
MC34072P
MC34072VD
MC34072VDR2
MC34072VP
MCW33172
MCW34071
MCW34072
MCZ33272AD
SA33072DR2
TYA33272ADR2