

DESIGN/PROCESS CHANGE NOTIFICATION

This is to inform you that a change is being made to the products listed below.

Unless otherwise indicated in the details of this notification, the identified change will have no impact on product quality, reliability, electrical, visual or mechanical performance and affected products will remain fully compliant to all published specifications. Products incorporating this change may be shipped interchangeably with existing unchanged products.

This change is planned to take effect in 90 calendar days from the date of this notification. Please work with your local Fairchild Sales Representative to manage your inventory of unchanged product if your evaluation of this change will require more than 90 calendar days.

Please contact your local Customer Quality Engineer within 30 days of receipt of this notification if you require any additional data or samples. Alternatively, you may send an email request for data, samples or other information to PCNSupport@fairchildsemi.com.

Implementation of change:

Expected First Shipment Date for Changed Product : May. 02, 2013

Expected First Date Code of Changed Product :1319

Description of Change (From) :

TO252/TO251/TO263/TO262 packages assembled in the following sites, which currently use these qualified mold compounds

Fairchild Suzhou:

EME6600CS (Sumitomo Bakelite)
KTMC5400SM (KCC)
AMC-2RC (Cookson)
KTMC5900GM - Halogen Free (KCC)

Fairchild Suzhou Subcon:

EME6600CS (Sumitomo Bakelite)

Fairchild Cebu:

EME6600CS (Sumitomo Bakelite)
EME6600HR (Sumitomo Bakelite)
MP-195 (Nitto Denko)

Description of Change (To) :

TO252/TO251/TO263/TO262 packages assembled in the following sites will use these alternatively qualified mold compounds

Fairchild Suzhou:
CEL8240HF10 - Halogen Free (Hitachi Chemical)

Fairchild Suzhou Subcon:
CEL9240HF10 - Halogen Free (Hitachi Chemical)

Fairchild Cebu:
KTMC5900GM - Halogen Free (KCC)

Reason for Change:

This is a change to mold compounds used for Fairchild products assembled in TO252/TO251/TO263/TO262 packages. There are no changes to the currently approved assembly facilities or any other materials used to produce these products. Package outline drawings of the affected products remain un-changed. Affected products will be fully compliant to all published data sheet specifications. Quality and reliability will remain at the highest standards already demonstrated with Fairchild's existing TO252/TO251/TO263/TO262 products. If you require data or samples to evaluate this change, please contact Fairchild Semiconductor within 30 days of receipt of this notification.

Affected Product(s):

2636_B26011	FCB11N60TM	FCB20N60FTM
FCB20N60TM	FCI7N60	FCU5N60TU
FDB035AN06A0	FDB035AN06A0_SN00015	FDB045AN08A0_SN00237
FDB050AN06A0	FDB050AN06A0_SN00269	FDB060AN08A0
FDB070AN06A0	FDB088N08_F140	FDB088N08_F141
FDB12N50FTM_WS	FDB12N50TM	FDB12N50UTM_WS
FDB13AN06A0	FDB15N50	FDB16AN08A0
FDB2532	FDB2532_SN00238	FDB2552
FDB2572	FDB2614	FDB2710
FDB3502	FDB3632	FDB3632_F101
FDB3632_SN00239	FDB3652	FDB3682
FDB38N30U	FDB7030BL	FDB8030L
FDB8444	FDB8445	FDB8447L
FDB86102LZ	FDB8870	FDB8880
FDB8896	FDD0207	FDD0655
FDD10AN06A0	FDD120AN15A0	FDD13AN06A0
FDD1600N10ALZ	FDD16AN08A0	FDD2572
FDD2582	FDD2670	FDD306P
FDD3510H	FDD3670	FDD3672
FDD3680	FDD3682	FDD3690
FDD3706	FDD3860	FDD390N15ALZ
FDD4141	FDD4243	FDD4685
FDD4N60NZ	FDD5353	FDD5612
FDD5614P	FDD5670	FDD5680
FDD5690	FDD6030L	FDD6296
FDD6530A	FDD6612A	FDD6630A
FDD6630A_B5N004A	FDD6635	FDD6637
FDD6670A	FDD6680AS	FDD6685
FDD6688	FDD6690A	FDD6760A
FDD6770A	FDD6780A	FDD6796A
FDD8424H	FDD8444	FDD8445
FDD8447L	FDD8451	FDD8453LZ
FDD86110	FDD86113LZ	FDD86250
FDD86252	FDD8647L	FDD86540
FDD8770	FDD8778	FDD8780
FDD8782	FDD8796	FDD8870
FDD8874	FDD8876	FDD8878
FDD8880	FDD8882	FDD8896
FDI038AN06A0	FDI150N10	FDI3632
FDI8441	FDU3N40TU	FDU7N60NZTU

Affected Product(s):

FFB10UP20STM	FFB20UP20STM	FFB20UP30DNTM
FFD04H60S	FFD10UP20S	FFD20UP20S
FGB20N60SF	FGB20N60SFD	FGB40N60SM
FGB5N60UNDF	FGB7N60UNDF	FGD4536TM
FJB102TM	FJB3307DTM	FJB5555TM
FJD3076TM	FJI5603DTU	FQB4N80TM
FQB5N50CTM	FQB5N60CTM_WS	FQB5N90TM
FQB5N90TM_SN00260	FQB6N40CTM	FQB6N80TM
FQB7N60TM	FQB7N60TM_WS	FQB8N60CTM
FQB8N60CTM_WS	FQB9N50CTM	FQD10N20LTM
FQD17N08LTM	FQD1N60CTM	FQD1N80TM
FQD2N100TM	FQD2N100TM_F101	FQD2N60CTM
FQD2N60CTM_SN00216	FQD2N60CTM_WS	FQD2N80TM
FQD2N90TM	FQD3N60CTM_WS	FQD3P50TM
FQD3P50TM_AM002BLT	FQD4P40TM	FQD4P40TM_AM002
FQD5N15TM	FQD5N60CTM	FQD5N60CTM_WS
FQD6N50CTM	FQD6N60CTM_WS	FQD7N30TM
FQD7P20TM	FQD9N25TM_F080	FQI13N50CTU
FQI27N25TU	FQI4N80TU	FQI4N90TU
FQI50N06TU	FQI5N60CTU	FQI7N60TU
FQI7N80TU	FQI8N60CTU	FQU10N20CTU
FQU11P06TU	FQU12N20TU	FQU13N06LTU
FQU13N06LTU_WS	FQU13N10LTU	FQU17P06TU
FQU1N60CTU	FQU1N80TU	FQU20N06LTU
FQU2N100TU	FQU2N50BTU_WS	FQU2N60CTU
FQU2N60CTU_SN00217	FQU2N90TU_AM002	FQU2N90TU_WS
FQU3N50CTU	FQU4N50TU_WS	FQU5N40TU
FQU5N50CTU_WS	FQU5N60CTU	FQU5P20TU
FQU8P10TU	FQU9N25TU	FYD0504SATM
HGT1S12N60A4DS	HGT1S20N60C3S9A	HGT1S7N60C3DS9A
HGTD1N120BNS9A	HGTD7N60C3S9A	HUF75545S3ST_F101
HUF75545S3ST_SN00258	HUF75631S3ST	HUF75639S3
HUF75639S3ST	HUF75645S3ST_F101	HUF76429S3ST
HUF76439S3ST	HUF76609D3ST	HUF76629D3ST
HUF76639S3ST	HUFA76429D3	IRFU214BTU_FP001
IRFU220BTU_AM002	ISL9R1560S3ST	ISL9R18120S3ST
ISL9R8120S3ST	ISL9R860S3ST	KA317MRM
KA7805ERTF	KA7805ERTM	KA7805ERTM_F065
KA7808ERTM	KA7809ERTM	KA7812ERTM
KA78M05RTM	KA78RH33RTF	KA78RH33RTM

Affected Product(s):

KA78RM33RTF	KA78RM33RTM	KA79M05RTF
KA79M05RTM	KA79M12RTF	KA79M12RTM
KSB834WYTM	KSH112TM	KSH117TF
KSH122ITU	KSH122TF	KSH122TM
KSH127TF	KSH127TM	KSH200TF
KSH210TF	KSH210TM	KSH2955TF
KSH2955TM	KSH29CTF	KSH3055TF
KSH3055TM	KSH31CTF	KSH32CTF
KSH340TF	KSH41CTF	KSH42CTF
KSH42CTM	KSH44H11ITU	KSH44H11TF
KSH44H11TM	KSH45H11ITU	KSH45H11TF
KSH45H11TM	KSH47TF	KSH50TF
LM317MDTX	LM317MDTXM	MC7805ECDTX
MC7812ECDTX	MC78M05CDTX	MJD112TF
MJD117TF	MJD122TF	MJD127TF
MJD210TF	MJD2955TF	MJD3055TF
MJD31CEITU	MJD31CETF	MJD31CETF_SN00207
MJD31CITU	MJD31CTF	MJD32CTF
MJD32CTM	MJD340TF	MJD350TF
MJD41CTF	MJD44H11TF	MJD44H11TM
MJD45H11TF	MJD45H11TM	MJD47TF
MJD50TF	MTD3055V	MTD3055VL
NDB5060L	NDB6020P	NDB6030PL
NDB6060L	RFD14N05L	RFD3055LE
RHRD660S9A	RUR1S1560S9A	RURD420S9A
RURD460S9A	RURD620CCS9A	RURD660S9A
SSU1N50BTU	SSU1N60BTU_WS	

Qualification Plan	Device	Package	Description	No. of Lots
F20120378	FQD5N50CTM	TO252 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 150C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231

Qualification Plan	Device	Package	Description	No. of Lots
F20120378	FQD5N60CTM_WS	TO252 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 150C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231

Qualification Plan	Device	Package	Description	No. of Lots
F20120378	FDB12N50TM	TO263 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 150C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231

Qualification Plan	Device	Package	Description	No. of Lots
F20120378	FGB20N60SFD	TO263 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 150C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231
HAST @ 130C, 85%RH, 80%rated BV,max=42V	JESD22-A110	96 hours	0/231
TMCL @ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/231

Qualification Plan	Device	Package	Description	No. of Lots
F20120378	ISL9R18120S3ST	TO263 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 150C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231

Qualification Plan	Device	Package	Description	No. of Lots
F20120378	RFD16N05LSM	TO252 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 150C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231
HAST @ 130C, 85%RH, 80%rated BV,max=42V	JESD22-A110	96 hours	0/231
TMCL @ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/231

Qualification Plan	Device	Package	Description	No. of Lots
F20120378	FQB5N90TM	TO263 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 150C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231
HAST @ 130C, 85%RH, 80%rated BV,max=42V	JESD22-A110	96 hours	0/231
TMCL @ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/231

Qualification Plan	Device	Package	Description	No. of Lots
F20120378	FQD4N50TM_WS	TO252 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 150C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231
HAST @ 130C, 85%RH, 80%rated BV,max=42V	JESD22-A110	96 hours	0/231
TMCL @ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/231

Qualification Plan	Device	Package	Description	No. of Lots
Q20120358	KSC5502DTM	TO252 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 125C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231
HTSL @ 150°C	JESD22-A103	168, 500, 1k hrs	0/231
PRCL @ DeltaTj 100 C DPAK: 3.5 min on/off	JESD22-A122	5k, 8572 Cycles	0/231
HAST @ 130C, 85%RH, 80% rated BV,max Vds=42V	JESD22-A110	96 hours	0/231
TMCL @ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/231

Qualification Plan	Device	Package	Description	No. of Lots
Q20120358	FJB3307DTM	TO263 (Suzhou)	Green EMC CEL8240HF10FC	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 125C, 80% Rated BV	JESD22-A108	168, 500, 1k hrs	0/231
HTSL @ 150°C	JESD22-A103	168, 500, 1k hrs	0/231
PRCL @ DeltaTj 100 C D2PAK: 5 min on/off	JESD22-A122	3k, 6k cycles	0/231
HAST @ 130C, 85%RH, 80% rated BV,max Vds=42V	JESD22-A110	96 hours	0/231
TMCL @ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/231

Qualification Plan	Device	Package	Description	No. of Lots
Q20100678	FDD6688	TO252 (GEM)	Green EMC CEL9240HF10	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 175C, 24V	JESD22-A108	500, 1k hrs	0/77
HTGB @ 175C, 20V	JESD22-A108	500, 1k hrs	0/77
PRCL @ Delta 100C, 2 Min cycle	MIL-STD-750-1036	5k, 10k cycles	0/77
HAST @ 85%RH, 130C, 24V	JESD22-A110	96 hours	0/77
TMCL @ -65C to 150C	JESD22-A104	200,500 cycles	0/77
ACLV @ 100%RH, 121C	JESD22-A102	96 hrs	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20100678	FDD8796	TO252 (GEM)	Green EMC CEL9240HF10	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 175C, 20V	JESD22-A108	500, 1k hrs	0/77
HTGB @ 175C, 20V	JESD22-A108	500, 1k hrs	0/77
PRCL @ Delta 100C, 2 Min cycle	MIL-STD-750-1036	5k, 10k cycles	0/77
HAST @ 85%RH, 130C, 20V	JESD22-A110	96 hours	0/77
TMCL @ -65C to 150C	JESD22-A104	200,500 cycles	0/77
ACLV @ 100%RH, 121C	JESD22-A102	96 hrs	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20100678	FDU8796	TO251 (GEM)	Green EMC CEL9240HF10	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 175C, 20V	JESD22-A108	500, 1k hrs	0/77
HTGB @ 175C, 20V	JESD22-A108	500, 1k hrs	0/77
PRCL @ Delta 100C, 2 Min cycle	MIL-STD-750-1036	5k, 10k cycles	0/77
HAST @ 85%RH, 130C, 20V	JESD22-A110	96 hours	0/77
TMCL @ -65C to 150C	JESD22-A104	200,500 cycles	0/77
ACLV @ 100%RH, 121C	JESD22-A102	96 hrs	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20080156	HUF76629D3ST_R4885	TO252 (Cebu)	Green EMC KTMC5900GM	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 175C, 80% BvdssV	JESD22-A108	168, 500, 1k hrs	0/231
HTGB @ 175C, 100%VgssV	JESD22-A108	168, 500, 1k hrs	0/231
PRCL @ Delta 100C, 3.5 Min ON / 3.5 Min off (1 lot) @ Delta 100C, 2 Min cycle (2 lots)	MIL-STD-750-1036	5k, 10k, 15k cycles	0/231
HAST @ 110C, 85%RH, 80%BvdssV	JESD22-A110	132, 264 hours	0/231
TMCL @ -65C to 150C	JESD22-A104	100, 500, 1000 cycles	0/231
ACLV @ 100%RH, 121C	JESD22-A102	96 hrs	0/231

Qualification Plan	Device	Package	Description	No. of Lots
Q20080156	ISL9V3040D3ST	TO252 (Cebu)	Green EMC KTMC5900GM	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 175C, 80% BvdssV	JESD22-A108	100, 500, 1k hrs	0/77
HTGB @ 175C, 100%VgssV	JESD22-A108	168, 500, 1k hrs	0/77
PRCL @ Delta 100C, 2 Min cycle	MIL-STD-750-1036	5k, 10k, 15k cycles	0/77
HAST @ 110C, 85%RH, 80%BvdssV	JESD22-A110	132, 264 hours	0/77
TMCL @ -65C to 150C	JESD22-A104	100, 500, 1000 cycles	0/77
ACLV @ 100%RH, 121C	JESD22-A102	96 hrs	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20080156	HUFA75344S3ST_R4966	TO263 (Cebu)	Green EMC KTMC5900GM	3

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 175C, 80% BvdssV	JESD22-A108	168, 500, 1k hrs	0/231
HTGB @ 175C, 100%VgssV	JESD22-A108	168, 500, 1k hrs	0/231
PRCL @ Delta 100C, 2 Min cycle (1 lot) @ Delta 100C, 3.5 Min on / 3.5 Min off (2 lots)	MIL-STD-750-1036	4k, 8572 cycles	0/231
HAST @ 110C, 85%RH, 80%BvdssV	JESD22-A110	132, 264 hours	0/231
TMCL @ -65C to 150C	JESD22-A104	100, 500, 1000 cycles	0/231
ACLV @ 100%RH, 121C	JESD22-A102	96 hrs	0/231

Qualification Plan	Device	Package	Description	No. of Lots
Q20080156	ISL9V5036S3ST_SB82065	TO263 (Cebu)	Green EMC KTMC5900GM	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB @ 175C, 80% BvdssV	JESD22-A108	168, 500, 1k hrs	0/77
HTGB @ 175C, 100%VgssV	JESD22-A108	168, 500, 1k hrs	0/77
PRCL @ Delta 100C, 3.5 Min ON / 3.5 Min offe	MIL-STD-750-1036	4k, 8572 cycles	0/77
HAST @ 110C, 85%RH, 80%BvdssV	JESD22-A110	132, 264 hours	0/77
TMCL @ -65C to 150C	JESD22-A104	100, 500, 1000 cycles	0/77
ACLV @ 100%RH, 121C	JESD22-A102	96 hrs	0/77