

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 : Dec. 16, 2013

Expected First Date Code of Changed Product :1401

Description of Change (From) :

TO3P 3L and TO247 3L packages assembled in Fairchild Suzhou site, which currently use the qualified mold compounds:

TO3P 3L:

KTMC1030NFE (KCC)
SI7200DX2 (Cheil)
SL7300HXM (Cheil)
EME6600CS (Sumitomo)

TO247 3L:

SL7300HFM (Cheil)
EME6600CS (Sumitomo)

Description of Change (To) :

TO3P 3L and TO247 3L packages assembled in Fairchild Suzhou site will use the alternatively qualified mold compounds:

SG8200DL - Halogen Free (Cheil)

Reason for Change:

This is a change to mold compound used for Fairchild products assembled in TO3P 3L and TO247 3L packages. There is no change to the currently approved assembly facility or any other materials used to produce these products. Package outline drawing 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 TO3P 3L and TO247 3L 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):

2SA1962OTU	2SA1962RTU	2SC5242OTU
2SC5242RTU	FCA16N60N	FCA20N60
FCA20N60F	FCA20N60S_F109	FCA20N60_F109
FCA22N60N	FCA35N60	FCA36N60NF
FCA47N60	FCA47N60F	FCA47N60F_SN00171
FCA47N60_F109	FCA76N60N	FCH041N60E
FCH041N60F	FCH072N60F	FCH104N60F
FCH22N60N	FCH25N60N	FCH47N60F_F133
FCH47N60N	FCH47N60NF	FCH47N60_F133
FCH76N60N	FCH76N60NF	FDA032N08
FDA16N50LDTU	FDA16N50_F109	FDA18N50
FDA20N50F	FDA20N50_F109	FDA24N40F
FDA24N50	FDA24N50F	FDA28N50
FDA28N50F	FDA33N25	FDA38N30
FDA50N50	FDA59N25	FDA59N30
FDA69N25	FDA70N20	FDA8440
FFA40UP35STU	FFA60UA60DN	FFA60UP20DNTU
FFA60UP30DNTU	FGA180N33ATDTU	FGA180N33ATTU
FGA20S120M	FGA30N60LSDTU	FGA30N65SMD
FGA40N65SMD	FGA50N100BNTD2	FGA50N100BNTDTU
FGA50S110P	FGA60N60UFDTU	FGA60N65SMD
FGA70N33BTDLDTU	FGA90N33ATDTU	FGA90N33ATTU
FGH30T65UPDT_F155	FGH40N60SMD	FGH40N60SMDF
FGH40T100SMD	FGH40T65UPD	FGH50T65UPD
FGH60N60SMD	FGH75N60SFTU	FGH75T65UPD
FJA13009TU	FJA4210OTU	FJA4213OTU
FJA4213RTU	FJA4310OTU	FJA4313OTU
FJA4313RTU	FQA10N80C_F109	FQA11N90C_F109
FQA11N90_F109	FQA13N50CF	FQA13N50C_F109
FQA13N80_F109	FQA140N10	FQA160N08
FQA16N50_F109	FQA170N06	FQA19N60
FQA24N50	FQA24N60	FQA27N25
FQA28N15	FQA28N50	FQA30N40
FQA32N20C	FQA36P15	FQA38N30
FQA40N25	FQA44N30	FQA46N15
FQA55N25	FQA62N25C	FQA65N20
FQA6N90C_F109	FQA70N10	FQA70N15
FQA7N80C_F109	FQA8N100C	FQA8N90C_F109
FQA90N08	FQA90N15	FQA90N15_F109
FQA9N90C_F109	FQA9N90_F109	FQA9P25

Affected Product(s):

FYA3010DNTU	HGTG12N60C3D	HGTG20N60A4D
HGTG30N60A4D	IRFP150A	KSE13009LTU
SGH10N60RUFDU	SGH20N60RUFDU	SGH30N60RUFDU
SGH40N60UFDU	SGH40N60UFTU	TIP147TU

Qualification Plan	Device	Package	Description	No. of Lots
Q20130111A	FQA9N90C	TO3P 3L	N-Channel QFET	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20130111A	FJA13009TU	TO3P 3L	NPN Silicon Transistor	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20130111A	FGA20S120M	TO3P 3L	Field Stop Trench IGBT	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20130111A	FGA50N100BNTDTU	TO3P 3L	NPT Trench IGBT	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20130111A	FDA50N50	TO3P 3L	N-Channel UniFET	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20130111A	FYA3010DNTU	TO3P 3L	Schottky Barrier Rectifier	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20100509B	FDH50N50	TO247	N-Channel UniFET	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20100509B	FGH80N60FDTU	TO247	Field Stop IGBT	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20100509B	RHRG75120	TO247	Hyperfast Diode	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20120344	FCH041N60E	TO247	N-Channel SuperFET	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20120344	FGH30S130P	TO247	Shorted-anode IGBT	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20120344	FGH40N60SMDF	TO247	Field Stop IGBT	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20120344	HGTG30N60A4D	TO247	SMPS Series N-Channel IGBT	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20120344	FCH76N60NF	TO247	N-Channel SupreMOS	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20120344	FGH75T65UPD	TO247	IGBT	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77

Qualification Plan	Device	Package	Description	No. of Lots
Q20120344	FGH75N60SFTU	TO247	IGBT	1

Test Description & Condition:	Standard :	Duration:	Results:
HTRB@ 80% of Rated BV, Tj max	JESD22-A108	168, 500, 1k hrs	0/77
HTGB@ 100 % Rated VGS, Tj max	JESD22-A108-B	168, 500, 1k hrs	0/77
PRCL @ 125°C TJC, delta Tj of 100 C, 5 min on, 5 min off	Mil Std 750 Method 1037 JESD22-A105	4K, 6K	0/77
H3TRB, 85 C/ 85% RH, 80% of Rated BV	JESD22-A110-B JESD22A-101	168,500,1k hours	0/77
TMCL@ -65C to 150 C, 30 min/cycle	JESD22-A104	200,500 cycles	0/77