

**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 : Sep. 12, 2012

Expected First Date Code of Changed Product :1237

Description of Change (From) :  
Single manufacturing source for SOD123 Schottky products located at JiangSu,China

Description of Change (To) :  
Additional manufacturing source located at Kaohsiung, Taiwan.

Comparison	Additional Source	Current Source
Die Size	25*25mil	29*37 mil
Die attach Material	Eutectic	Epoxy 84-1
Wire Material	Cu Wire	Au Wire
Molding Compound	ELER-8-500C(Green)	GE1030(Green)
Package Outline Drawing	MKT-MA02A Rev4	MKT-MA02A Rev3
POD Profile Height(USL)	0.12mm	0.10mm
POD Foot Length(LSL)	0.23mm	0.25mm

Reason for Change:

Manufacturing flexibility. Package Outline Drawings of the affected products are referenced to the JEDEC, DO-215 Issue D, Variation AD standard. This change will have no impact on product quality, reliability performance. Affected devices will remain fully compliant to all published datasheet specifications, although significant electrical parameter shifts observed. Electrical characterization is available upon request.

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**Affected Product(s):**

MBR0520L	MBR0520L_G	MBR0530
MBR0540		

Qualification Plan	Device	Package	Process	No. of Lots
Q20120135	MBR0520L	SOD123	Schottky Rectifier	1

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260C, 3 cycles	JESD22-A113		0/154
Temperature Humidity Bias Test	85%RH, 85C, 85% BV	JESD22-A101B	1000 hrs	0/77
High Temperature Reverse Bias Test	125C, 80% BV	JESD22-A108	1000 hrs	0/77
High Temperature Storage Life	150C	JESD22-A103	1000 hrs	0/77
Power Cycle	Delta 100C, 2 Min cycle	MIL-STD-750-1036	10000 cycles	0/77
Temperature Cycle	-65C, 150C	JESD22-A104	500 cycles	0/77

Qualification Plan	Device	Package	Process	No. of Lots
Q20120135	MBR0540	SOD123	Schottky Rectifier	2

Test Description:	Condition:	Standard :	Duration:	Results:
MSL1 Precondition	260C, 3 cycles	JESD22-A113		0/308
Temperature Humidity Bias Test	85%RH, 85C, 85% BV	JESD22-A101B	1000 hrs	0/77
High Temperature Reverse Bias Test	125C, 80% BV	JESD22-A108	1000 hrs	0/77
High Temperature Storage Life	150C	JESD22-A103	1000 hrs	0/77
Power Cycle	Delta 100C, 2 Min cycle	MIL-STD-750-1036	10000 cycles	0/77
Temperature Cycle	-65C, 150C	JESD22-A104	500 cycles	0/77