

DESIGN/PROCESS CHANGE NOTIFICATION -- FINAL

This is to inform you that a design and/or process change will be made to the following product(s). This notification is for your information and concurrence.

If you require data or samples to qualify this change, please contact **Fairchild Semiconductor within 30 days of receipt of this notification.**

Updated process quality documentation, such as FMEAs and Control Plans, are available for viewing upon request.

If you have any questions concerning this change, please contact:

Technical Contact:

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PCN Originator:

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Implementation of change:

Expected 1st Device Shipment Date: 2011/08/31

Earliest Year/Work Week of Changed Product: 1136

Change Type Description: Metallization Material, Wafer Diameter

Description of Change (From): Affected products fabricated on 4" diameter wafers

Description of Change (To): Affected products fabricated on 5" diameter wafers

Reason for Change : This is extension of PCN # Q4104401. Closure of 4" substrate line and qualification of 5" wafer for transition. This 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. Please contact your local Customer Quality Engineer within 30 days of receipt of this notification if you require any additional data or samples. 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.

Qual/REL Plan Number(s): Q20110123, Q20110297

Qualification :

Products manufactured with 5" diameter wafers have successfully met Fairchild's qualification requirements.

Change From

Diodes	
Top Metal	Pd + Ag Bump
Back Metal	Au + As-Ni-Ag
Wafer Size	4"
Zeners	
Wafer Size	4"

Change To

Diodes	
Top Metal	Ti-Ag + Ag Bump
Back Metal	Ti Ni Ag
Wafer Size	5"
Zeners	
Wafer Size	5"

Results/Discussion for Qual Plan Number(s): Q20110123

Test: (High Temperature Reverse Bias) Conditions: 150C, 80%BV Standard: JESD22-A108					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20110123AAHTRB	1N3595	0/77			
			0/77		
				0/77	
Q20110123BAHTRB	FDLL400	0/77			
			0/77		
				0/77	
Q20110123CAHTRB	1N4153	0/77			
			0/77		
				0/77	
Test: (Temperature Cycle) Conditions: -65C, 150C Standard: JESD22-A104					
Lot	Device	200-CYCLES	500-CYCLES		Failure Code
Q20110123AATMCL1	1N3595	0/77			
Q20110123AATMCL1	1N3595		0/77		
Q20110123BATMCL1	FDLL400	0/77			
Q20110123BATMCL1	FDLL400		0/77		
Q20110123CATMCL1	1N4153	0/77			
Q20110123CATMCL1	1N4153		0/77		

Results/Discussion for Qual Plan Number(s): Q20110297

Test: (High Temperature Reverse Bias) Conditions: 150C, 80%BV Standard: JESD22-A108					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20110297AAHTRB	1N5263B	0/77			
			0/77		
				0/77	
Q20110297BAHTRB	1N4753A	0/77			
			0/77		
				0/77	
Q20110297CAHTRB	FLZ2V7A	0/77			
			0/77		
				0/77	

Product Id Description : This change will affect Fairchild's Switching Diodes and Zeners

assembled in DO-35, SOD-80, LL-34 and DO-41 glass packages. The products affected by this change are listed below in the "Affected FSIDs" section.

Affected FSIDs :

1MD2_FDH3369C	1N3070TR	1N3595TR
1N3595	1N456ATR	1N456A
1N457ATR	1N457A	1N457TR
1N457	1N458ATR	1N458A
1N459ATR	1N459A	1N459TR
1N459	1N459_T50R	1N4728ATR
1N4728A	1N4728A_T50A	1N4729A
1N4730ATR	1N4730A	1N4730A_T50A
1N4731ATR	1N4731A	1N4731A_T50A
1N4732ATR	1N4732A	1N4732A_T50A
1N4733ATR	1N4733A	1N4733A_T50A
1N4733A_T50R	1N4734ATR	1N4734A
1N4734A_T50A	1N4734A_T50R	1N4735ATR
1N4735A	1N4735A_T50A	1N4735A_T50R
1N4736ATR	1N4736A	1N4736A_T50A
1N4736A_T50R	1N4737ATR	1N4737A
1N4737A_T50A	1N4738ATR	1N4738A
1N4738A_T50A	1N4738A_T50R	1N4739ATR
1N4739A	1N4739A_T50A	1N4740ATR
1N4740A	1N4740A_T50A	1N4741ATR
1N4741A	1N4741A_T50A	1N4742ATR
1N4742A	1N4742A_T50A	1N4743ATR
1N4743A	1N4743A_T50A	1N4743A_T50R
1N4744ATR	1N4744A	1N4744A_T50A
1N4744A_T50R	1N4745ATR	1N4745A
1N4745A_T50A	1N4746ATR	1N4746A
1N4746A_T50A	1N4747ATR	1N4747A
1N4747A_T50A	1N4748ATR	1N4748A
1N4748A_T50A	1N4749ATR	1N4749A
1N4749A_T50A	1N4749A_T50R	1N4750ATR
1N4750A	1N4750A_T50A	1N4751ATR
1N4751A	1N4751A_T50A	1N4752ATR
1N4752A	1N4752A_T50A	1N4753A
1N4753A_T50A	1N4754A	1N4754A_T50A
1N4755A	1N4755A_T50A	1N4756A
1N4757A	1N4758A	1N4758A_T50A
1N483B	1N485BTR	1N485B
1N486B	1N486B_T50A	1N5221B
1N5222B	1N5223B	1N5224B
1N5225B	1N5226BTR	1N5226B
1N5227BTR	1N5227B	1N5228BTR
1N5228B	1N5229BTR	1N5229B
1N5230BTR	1N5230B	1N5231BTR
1N5231B	1N5231CTR	1N5231C
1N5232BTR	1N5232B	1N5233BTR

1N5233B	1N5234BTR	1N5234B
1N5234CTR	1N5234C	1N5235BTR
1N5235B	1N5236BTR	1N5236B
1N5237BTR	1N5237B	1N5238B
1N5239BTR	1N5239B	1N5240BTR
1N5240B	1N5241BTR	1N5241B
1N5242BTR	1N5242B	1N5243BTR
1N5243B	1N5244BTR	1N5244B
1N5245BTR	1N5245B	1N5246BTR
1N5246B	1N5247BTR	1N5247B
1N5248BTR	1N5248B	1N5249BTR
1N5250BTR	1N5250B	1N5251BTR
1N5251B	1N5252BTR	1N5252B
1N5253BTR	1N5253B	1N5254BTR
1N5254B	1N5255B	1N5256BTR
1N5256B	1N5257BTR	1N5257B
1N5258B	1N5259B	1N5260B
1N5260B_T50A	1N5261B	1N5262B
1N5262B_T50A	1N5263B	1N5263B_T50R
1N5282TR	1N5282	BAV102
BAV103	BAV103_G	BAV19TR
BAV21TR	BAV21	BAV21_T50A
BAV21_T50R	BAX16TR	BAX16
BAY72TR	BAY73	BZX79C10
BZX79C10_T50A	BZX79C11	BZX79C11_T50A
BZX79C12	BZX79C12_T50A	BZX79C13_T50A
BZX79C15	BZX79C15_T50A	BZX79C15_T50R
BZX79C16_T50A	BZX79C18_T50A	BZX79C20
BZX79C20_T50A	BZX79C22_T50A	BZX79C24
BZX79C24_T50A	BZX79C27_T50A	BZX79C2V4
BZX79C2V4_T50A	BZX79C2V7	BZX79C2V7_T50A
BZX79C30_T50A	BZX79C33	BZX79C33_T50A
BZX79C36_T50A	BZX79C39	BZX79C39_T50A
BZX79C3V0	BZX79C3V3	BZX79C3V3_T50A
BZX79C3V6	BZX79C3V6_T50A	BZX79C3V9
BZX79C3V9_T50A	BZX79C47	BZX79C4V3
BZX79C4V3_T50A	BZX79C4V7	BZX79C4V7_T50A
BZX79C51	BZX79C51_T50A	BZX79C5V1
BZX79C5V1_T50A	BZX79C5V6TR	BZX79C5V6
BZX79C5V6_T50A	BZX79C6V2	BZX79C6V2_T50A
BZX79C6V2_T50R	BZX79C6V8	BZX79C6V8_T50A
BZX79C7V5_T50A	BZX79C8V2	BZX79C8V2_T50A
BZX79C9V1	BZX79C9V1_T50A	BZX85C10TR5K
BZX85C10	BZX85C10_T50A	BZX85C10_T50R
BZX85C11TR5K	BZX85C11	BZX85C12TR5K
BZX85C12	BZX85C12_T50A	BZX85C12_T50R
BZX85C13TR5K	BZX85C13	BZX85C13_T50A
BZX85C15TR5K	BZX85C15	BZX85C15_T50A

BZX85C15_T50R	BZX85C16TR5K	BZX85C16
BZX85C16_T50A	BZX85C18TR5K	BZX85C18
BZX85C18_T50A	BZX85C18_T50R	BZX85C20
BZX85C22	BZX85C24	BZX85C24_T50R
BZX85C27	BZX85C30	BZX85C33
BZX85C36	BZX85C36_T50R	BZX85C3V3
BZX85C3V6	BZX85C3V9	BZX85C47
BZX85C4V3	BZX85C4V7	BZX85C51
BZX85C51_T50A	BZX85C5V1TR5K	BZX85C5V1
BZX85C5V1_T50A	BZX85C5V6	BZX85C5V6_T50R
BZX85C6V2	BZX85C6V2_T50A	BZX85C6V8
BZX85C7V5TR5K	BZX85C7V5	BZX85C7V5_T50A
BZX85C8V2	BZX85C9V1	FDH300ATR
FDH300A	FDH300TR	FDH333TR
FDH333	FDH3595	FDH400TR
FDH400	FDH444TR	FDH444
FDLL300A	FDLL333	FDLL3595
FDLL400	FDLL4150	FDLL4151
FDLL457A	FDLL485B	FJH1100
FJH1101	FLZ10VA	FLZ10VB
FLZ10VC	FLZ11VA	FLZ11VB
FLZ11VC	FLZ12VA	FLZ12VB
FLZ12VC	FLZ13VA	FLZ13VB
FLZ13VC	FLZ15VA	FLZ15VB
FLZ15VC	FLZ16VA	FLZ16VB
FLZ16VC	FLZ18VA	FLZ18VB
FLZ18VC	FLZ20VA	FLZ20VB
FLZ20VC	FLZ20VD	FLZ22VA
FLZ22VB	FLZ22VC	FLZ22VD
FLZ24VA	FLZ24VB	FLZ24VC
FLZ24VD	FLZ27VA	FLZ27VB
FLZ27VC	FLZ27VD	FLZ2V2A
FLZ2V2B	FLZ2V4A	FLZ2V4B
FLZ2V7A	FLZ2V7B	FLZ30VA
FLZ30VB	FLZ30VC	FLZ30VD
FLZ33VA	FLZ33VB	FLZ33VC
FLZ33VD	FLZ36VA	FLZ36VB
FLZ36VC	FLZ36VD	FLZ39VA
FLZ39VB	FLZ39VC	FLZ39VD
FLZ3V0A	FLZ3V0B	FLZ3V3A
FLZ3V3B	FLZ3V6A	FLZ3V6B
FLZ3V9A	FLZ3V9B	FLZ4V3A
FLZ4V3B	FLZ4V3C	FLZ4V7A
FLZ4V7B	FLZ4V7C	FLZ5V1A
FLZ5V1B	FLZ5V1C	FLZ5V6A
FLZ5V6B	FLZ5V6C	FLZ6V2A
FLZ6V2B	FLZ6V2C	FLZ6V8A
FLZ6V8B	FLZ6V8C	FLZ7V5A

FLZ7V5B	FLZ7V5C	FLZ8V2A
FLZ8V2B	FLZ8V2C	FLZ9V1A
FLZ9V1B	FLZ9V1C	