



Date Created: 4/28/2003

Date Issued: 1/26/2004

PCN # 20031704

DESIGN/PROCESS CHANGE NOTIFICATION -- FINAL

Please refer to Forecast PCN# 20031203.

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.**

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

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PCN Type: Die Shrink

Effectivity

Expected 1st Device Shipment Date: 4/23/2004
Earliest Year/Work Week of Changed Product: 0417
(Note: Package marking may differ from this format)

Product ID (Description):

This change will affect all 6.8 - 20 V zener devices in DO-41 and DO-35 packages.

Description of Change:

Fairchild is in the process of qualifying Torex's shrunk zener die, from 0.45mm x 0.45mm to 0.35mm x 0.35mm, for the voltage range of 6.8V to 20V. The shrunk die will completely replace the existing large die. There will be no change in Fab and Assembly sites. Fairchild Semiconductor zeners in DO-35 and DO-41 packages will still be sourced from Torex International Inc. and assembled in one of its subcontracting plants, Takcheong Electronics, located in Shanwei, Guandong, China.

Effect of Change:

There is no change in the product performance to the specification limits. Parts covered in this change are expected to have comparable performance with the current parts in terms of quality and reliability.

Qualification:

The qualification plan is intended to meet all the requirements outlined for shrunk die qualification and the overall quality and reliability of our products.

Qual/REL Plan Numbers

Qual Results: FCB20030052

02-036	1N4758A	HTRB	168hrs	79	0	0
D/R# n/a			500hrs		0	0
Test 01-a (TC)			1Khrs		0	0
55.0Bv		ZOPL	168hrs	79	0	0
			500hrs		0	0
230187	1N4736A	HAST	96hrs	79	0	0
Test 01-b (CB)						
6.8Bv						
02-037	1N5231B	HTRB	168hrs	79	0	0
D/R# n/a			500hrs		0	0
Test 02-a (TC)			1Khrs		0	0
5.1Bv		ZOPL	168hrs	79	0	0
			500hrs		0	0
230191	1N5250B	HAST	96hrs	79	0	0
Test 02-b (CB)						
20.0Bv						
02-038	1N5242B	HTRB	168hrs	79	0	0
D/R# n/a			500hrs		0	0
Test 03-a (TC)			1Khrs		0	0
12.0Bv		ZOPL	168hrs	79	0	0
			500hrs		0	0
230189	BZX79C6V8	HAST	96hrs	79	0	0
Test 03-b (CB)						
6.8Bv						

Conclusion

Based on favorable reliability test result, product change is now qualified for full production.

Affected FSIDs

1N4736A	1N4736ATR	1N4737A
1N4737ATR	1N4738A	1N4738ATR
1N4739A	1N4739ATR	1N4740A

1N4740ATR
1N4742A
1N4743A
1N4744ATR
1N4746A
1N4747ATR
1N5236B
1N5237BTR
1N5239B
1N5240BTR
1N5242B
1N5243BTR
1N5245B
1N5246BTR
1N5248B
1N5249BTR
1N754A_T50A
1N755ATR
1N757A
1N758ATR
1N957B
1N958BTR
1N960B
1N961BTR
1N963B
1N964BTR
1N966B
1N967BTR
BZX55C10
BZX55C13
BZX55C18
BZX55C7V5
BZX79C10
BZX79C13
BZX79C18
BZX79C7V5
BZX85C10
BZX85C11TR
BZX85C15
BZX85C20
BZX85C8V2
JZD4_FZJZ006A
LZD4_FZLZ005A
RZD4_FZRZ004A
WZD4_FZWZ004A

1N4741A
1N4742ATA
1N4743ATR
1N4745A
1N4746ATR
1N5235B
1N5236BTR
1N5238B
1N5239BTR
1N5241B
1N5242BTR
1N5244B
1N5245BTR
1N5247B
1N5248BTR
1N5250B
1N754A_T50R
1N756A
1N757ATR
1N759A
1N957BTR
1N959B
1N960BTR
1N962B
1N963BTR
1N965B
1N966BTR
1N968B
BZX55C11
BZX55C15
BZX55C20
BZX55C8V2
BZX79C11
BZX79C15
BZX79C20
BZX79C8V2
BZX85C11
BZX85C12
BZX85C16
BZX85C6V8
BZX85C9V1
LZD2_DHLZ004A
PZD2_DHPZ005A
TZD4_FZTZ005A
XZD4_FZXX004A

1N4741ATR
1N4742ATR
1N4744A
1N4745ATR
1N4747A
1N5235BTR
1N5237B
1N5238BTR
1N5240B
1N5241BTR
1N5243B
1N5244BTR
1N5246B
1N5247BTR
1N5249B
1N5250BTR
1N755A
1N756ATR
1N758A
1N759ATR
1N958B
1N959BTR
1N961B
1N962BTR
1N964B
1N965BTR
1N967B
1N968BTR
BZX55C12
BZX55C16
BZX55C6V8
BZX55C9V1
BZX79C12
BZX79C16
BZX79C6V8
BZX79C9V1
BZX85C11TA
BZX85C13
BZX85C18
BZX85C7V5
JZD2_DHJZ005A
LZD2_DHLZ006A
QZD4_FZQZ004A
UZD4_FZUZ003A
ZZD4_FZZZ004A