

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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Implementation of change:

Expected 1st Device Shipment Date: 2011/09/17

Earliest Year/Work Week of Changed Product: 2010/30

Change Type Description: Alternate Fab Location

Description of Change (From): High voltage high speed power switch application NPN transistors fabricated at Fairchild Korea.

Description of Change (To): High voltage high speed power switch application NPN transistors fabricated at an alternative fabrication facility located in China.

Reason for Change : This change is being made to increase production capacity and provide better supply chain flexibility. Other similar Fairchild products have previously been qualified and are being produced in this alternate fabrication facility. Affected products will be fully compliant to all published data sheet specifications and package outline drawings. Quality and reliability will remain at the highest standards already demonstrated with Fairchild's existing products. If you require data or samples to evaluate this change, please contact Fairchild Semiconductor within 30 days of receipt of this notification. 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): Q20100398

Qualification :

The qualification results meet all our criteria for qualifying alternate fabrication site and the overall reliability of our products.

Results/Discussion for Qual Plan Number(s): Q20100398

Test: (Autoclave) Conditions: 100%RH, 121C Standard: JESD22-A102					
Lot	Device	48-HOURS	96	Failure Code	
Q20100398AAACLV	FJPF13009	0/77			
Q20100398AAACLV	FJPF13009		0/77		
Q20100398ABACLV	FJPF13009	0/77			
Q20100398ABACLV	FJPF13009		0/77		
Q20100398ACACLV	FJPF13009	0/77			
Q20100398ACACLV	FJPF13009		0/77		
Test: (High Temperature Reverse Bias) Conditions: 150C, 560V Standard: JESD22-A108					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20100398AAHTRB		0/77			
			0/77		
				0/77	
Q20100398ABHTRB			0/77		
				0/77	
Q20100398ACHTRB			0/77		
				0/77	
Test: (High Temperature Storage Life) Conditions: 150C Standard: JESD22-A103					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20100398AAHTSL		0/77			
			0/77		
				0/77	
Q20100398ABHTSL			0/77		
				0/77	
Q20100398ACHTSL			0/77		
				0/77	
Test: (Temperature Cycle) Conditions: -65C, 150C Standard: JESD22-A104					
Lot	Device	200-CYCLES	500-CYCLES	Failure Code	
Q20100398AATMCL1	FJPF13009	0/77			
Q20100398AATMCL1	FJPF13009		0/77		
Q20100398ABTMCL1	FJPF13009	0/77			
Q20100398ABTMCL1	FJPF13009		0/77		
Q20100398ACTMCL1	FJPF13009	0/77			
Q20100398ACTMCL1	FJPF13009		0/77		
Test: (Temperature Humidity Biased Test) Conditions: 85%RH, 85C, 100V Standard: JESD22-A101					
Lot	Device	168-HOURS	500-HOURS	1000-HOURS	Failure Code
Q20100398AATHBT		0/77			
			0/77		
				0/77	
Q20100398ABTHBT		0/77			
			0/77		
				0/77	
Q20100398ACTHBT			0/77		
				0/77	

Product Id Description : High voltage high speed power switch application NPN transistors.

Affected FSIDs :

495220TU_F080	495220TU_SN00120	FJE3303H1TU
FJE3303H2TU	FJN3303BU	FJN3303FBU
FJN3303FTA	FJN3303TA	FJP5027OTU
FJP5027RTU	FJPF5027OTU	FJPF5027RTU
KSC2333YTU	KSC3569YTU	KSC5338DTU
KSC5338D	KSH47TF	KSH50TF
MJD47TF	MJD50TF	TIP47TU
TIP47	TIP48TU	TIP48
TIP49	TIP50TU	TIP50