Customer Process Change Notification Form PCN-2010-419

Part Information

Cirrus Logic Part # / Quantity

CS4353-CNZ(R)

PCN Effective Date: 1/21/2011

Lot Effective Date: 10/21/2010

(Contact the sales representative for availability of samples if applicable)

Cirrus P/N Change: ○ Yes ◉ No

If yes, provide new part number:

Package Mark Change: ◉ Yes ○ No

If Yes, briefly explain:

YFMAB1 to YFMAC0

[Any Fab, Assembly, or Design changes results in pack mark changes, please provide detail]

Reason for Change:

- ☑ Design/New Rev
- ☐ Fab Process
- ☐ Assembly Site
- ☐ Additional Assembly Source
- ☐ Fab Site
- ☐ Assembly Process
- ☑ Other (Specify)
- ☐ Additional Fab Source

Description of Change:

- ☐ Fix Errata
- ☐ Yield Enhancement
- ☐ Fix Known Bug
- ☐ Performance Improvement
- ☑ Other (specify)

All layer revision for next generation manufacturability improvement in circuit layout. Fab, process and datasheet specifications remain the same.

Quality and Reliability Impact:

Qualification Data Required? ◉ Yes ○ No

Data Sheet Change Required? ○ **Yes** ◉ **No**

If Yes, briefly explain:

Qualification Reliability Report

Report: QRR100809
Date: 9/2/2010
Approved by: Mike Klucher

Purpose	Results
Qualification of CS4353 Rev C0 in the 24QFN package.	Qualification successful.

Background Information

Part #:	CS4353	**Fab:**	MagnaChip (Korea)	**Package:**	24 QFN
Rev:	C0	**Assembly:**	STATSChipPAC (Malaysia)	**Lead Finish:**	Pb-free

Stress Name	Method	Conditions	Lot	Read Point	Results (Fail/Sample)
ELFR	JESD22-A108	125°C With Bias Dynamic	1	48 Hours	0 / 528
ELFR (Similarity)	JESD22-A108	125°C With Bias Dynamic	1	48 Hours	0 / 560
			2	48 Hours	0 / 717
			3	48 Hours	0 / 548
			4	48 Hours	0 / 807
HTOL	JESD22-A108	125°C With Bias Dynamic	1	1000 Hours	0 / 77
HTOL (Similarity)	JESD22-A108	125°C With Bias Dynamic	1	1000 Hours	0 / 77
			2	1000 Hours	0 / 77
ESD HBM (Human Body Model)	JESD22-A114	25°C	1	500 Volts	0 / 5
				1000 Volts	0 / 5
				1500 Volts	0 / 5
				2000 Volts	0 / 5
ESD CDM (Charged Device Model)	JESD22-C101	25°C	1	500/750 Volts	0 / 3
500 Volts on non-corner pins / 750 Volts on corner pins.					
Latch-Up Current Injection (I/O)	JESD78	105°C	1	+/- 200 mA	0 / 6
Latch-Up Over Voltage (VDD)	JESD78	105°C	1	5.73 Volts	0 / 6

Stress Name	Method	Conditions	Lot	Read Point	Results (Fail/Sample)
Precondition MSL-2	JESD22-A113	24HR 125°C Bake 168HR 85°C/60%RH Soak 3 pass 260°C reflow	1	Precondition	0 / 231
HAST	JESD22-A110	130°C 85%RH With Bias	1	96 Hours	0 / 77
Temperature Cycle	JESD22-A104	Condition C -65°C +150°C air to air	1	500 Cycles	0 / 77
Autoclave/PPOT	JESD22-A102	121°C 15 psig 100% R.H.	1	96 Hours	0 / 77
HTSL (High Temp Storage Life)	JESD22-A103	150 °C	1	1000 Hours	0 / 77
Precondition MSL-2 (Similarity)	JESD22-A113	24HR 125°C Bake 168HR 85°C/60%RH Soak 3 pass 260°C reflow	1	Precondition	0 / 231
Precondition MSL-3 (Similarity)	JESD22-A113	24HR 125°C Bake 192HR 30°C/60%RH Soak 3 pass 260°C reflow	1	Precondition	0 / 231
THB (Similarity)	JESD22-A101	85°C 85%RH With Bias	1 2	1000 Hours 1000 Hours	0 / 77 0 / 77
Temperature Cycle (Similarity)	JESD22-A104	Condition C -65°C +150°C air to air	1 2	500 Cycles 500 Cycles	0 / 77 0 / 77
Tomography (CSAM) (Similarity)	J-STD-035		1 2	Post Temp Cycle Post Temp Cycle	0 / 5 0 / 5
Autoclave/PPOT (Similarity)	JESD22-A102	121°C 15 psig 100% R.H.	1 2	96 Hours 96 Hours	0 / 77 0 / 77
HTSL (High Temp Storage Life) (Similarity)	JESD22-A103	150 °C	1	1000 Hours	0 / 77
Solderability (Similarity)	JESD22-B102	93 °C steam aging 8 Hours 260 °C solder bath 5 Seconds	1	Solderability	0 / 5

Software Change Required? ○ **Yes** ◉ **No**

If Yes, briefly explain:

Customer Acknowledgement and Agreement

Acknowledged and Agreed as of the Date written below:

Customer Company Name: _____

Customer Contact Name: _____

Title: _____

Signature: _____

Date:

○ Customer Agreed ○ Customer Reject ○ Not Applicable

Customer Comments:

	Title: CUSTOMER PROCESS CHANGE NOTIFICATION FORM		
CIRRUS LOGIC	Digitally Signed By: Cirrus Logic - Customer Quality Digitally signed by Cirrus Logic - Customer Quality DN: cn=Cirrus Logic - Customer Quality, c=US, ou=Cirrus Logic Austin, email=customer_quality@cirrus.com Reason: All signatures on file Date: 2010.10.25 14:14:47 -05'00'	Doc No: 4-QUAL-00017	Rev: D