

Informational

WM8727CGED Leadframe Change

Dear Customer,

This notification is to advise you of the following change(s).

Due to a fire at our WM8727 lead-frame supplier, we have qualified MITSUI as our new supplier.

If you have any questions, please contact your Sales Representative.

Sincerely,

Quality Systems Administrator Cirrus Logic Corporate Quality Phone: +1(512) 851-4000

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Products Affected:

The devices listed on this page are the complete list of affected devices. According to our records, these are the devices that you have purchased within the past twenty-four (24) months. The corresponding customer part number is also listed, if available.

Technical details of this Process / Product Change follow on the next page(s).

Title: WM8727CGED L		∟eadframe Supplier Change							
Customer Contact: Local Field Sales		s Representative Phone: (512) 851-		1000	Dept:	Corp	orate Quality		
Proposed 1 st Ship Date:		01 2	1 2016 Estimated Sample		Availability Date:		10 2015		
Change Type:									
	Assembly Site			Assembly Process		Х	Assembly Materials		
	Wafer Fab Site			Wafer Fab Process			Wafer Fab Materials		
	Wafer Bump Site			Wafer Bump Process			Wafer Bump Material		Material
	Test Site			Test Process			Design		
	Electrical Specification			Mechanical Specification			Part Number		
	Packing/Shipping/Labeling			Other					
Con	nments:								

PCN Details						
Description of Change:						
Due to a fire at the current WM8727 leads	frame manufacturer we hav	e qualified a new supplier				
	Current Leadframe	New Leadframe				
Manufacturer	PSMC	MITSUI				
	•					
Reason for Change:						
In order to ensure continuity of supply for	our customers					
Anticipated Impact on Form, Fit, Funct	ion, Quality or Reliability:					
No impact to form, fit or function						
Product Affected:						
			7			
Cirrus Logic Part Numbe	r	Customer Part Number				
WM8727CGED			1			
WM8727CGED/R			1			

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Changes To Product Identification Resulting From This PCN:

Current leadframe product MMC : 5UI New leadframe product MMC : CY3

Qualification Data:

Qualification	Complete	10 2015	Status	Passed
	d			

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Reliability Engineering Qualification Report

WM8727CGED

Wafer Fabrication - MagnaChip Semiconductor, CF2 Fab, Korea Package Assembly - ASE Chungli, SOIC8

	MUMM., Senior Reliability Engineer	Date :	28/10/15
Dan Liu, Senior	مار Reliability Engineer	Date :	29/10/15
P.P. Bogain Gary Morton, Ma	Market Language of Supply Chain PTE	Date :	29/10/15.
	Director of Quality	Date :	29/10/15
ONFIDENTIAL	This document is the property of Cirrus Logic Internation Ltd, and may not be copied in full or in part, or the infor within disclosed to a third party, without the written prompany.	mation cor	ntained
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PCN Number: PCN-2015-27 PCN Notification Date: 11/03/2015

Summary

The WM8727CGED device has passed all Cirrus product qualification requirements.

Silicon level reliability

- 1000 hours of High Temperature Operating Life (HTOL) testing.
- Electrostatic Discharge (ESD) testing.
- Latch-Up testing.

The package level reliability was qualified by similarity to the WM8762CGED device for HTS, MSL and TC which is assembled in an ASE Chungli SOIC8 package.

Package level reliability

- 1000 hours of High Temperature Storage (HTS) testing.
- 1000 hours of Temperature, Humidity & Bias (THB) testing.
- Moisture Sensitivity Level (MSL) testing at MSL 1 and subsequent Temperature Cycling for 500 cycles.

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Reliability Test Results

Test Lots: (1) 4923 (31ACABX)

(2) 16761A (73AIR6X) (3) 31031 (0AAA5UI) (4) 423511 (56AAUJM)

Silicon Level Tests

Stress Test	Test Conditions	JESD22 Spec	Pre- condition	Test Duration	Fails/Passes (Lot)
High Temperature Operating Life (HTOL) testing	125°C V1= 5.5V Dynamic	A108	-	1000 hours	0/77(1)
Electrostatic Discharge (ESD) Sensitivity Testing Human Body Model (HBM)	>= Class 2 ESD pulse of 2000V HBM	A114	-	-	0/3 (1)
Electrostatic Discharge (ESD) Sensitivity Testing Machine Model (MM)	>= Class B ESD pulse of 200V MM	A115	-	-	0/3 (1)
Field-Induced Charged-Device Model (CDM) Test Method for Electrostatic Discharge (ESD)	>= Class III ESD pulse of 500V CDM	C101	-	-	0/3 (2)
IC Latch-Up Test	Class II Level A +/-100mA Current Injection and 1.5xMax Vsupply Overvoltage	JESD78	-	-	0/3 (1)

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PCN Number: PCN-2015-27 PCN Notification Date: 11/03/2015

Package Level Tests

Stress Test	Test Conditions	JESD22 Spec	Pre- condition	Test Duration	Fails/Passes (Lot)
High Temperature Storage (HTS) testing	150°C No bias	A103	•	1000 hours	0/77 (4)
Temperature, Humidity & Bias (THB) testing	85°C/85%RH VI= 5.5 V	A101	(a)	1000 hours	0/77 (3)
Moisture Sensitivity Level (MSL) testing	MSL 1 (Peak IR reflow temperature = 260°C)	J-STD-020	-	-	0/77 (4)
Temperature Cycling	-65°C to +150°C Transfer time < 1 minute Soak time > 10 minutes	A104	(a)	500 cycles	0/77 (4)

Pre-condition: JEDEC Moisture Sensitivity Level 1 (JESD22 - A113)

Revision History

Revision	Date	Originator	Change
1.0	29/06/2011	Melwin Antony	Initial refease
1.1	23/08/2011	Melwin Antony	Added 'C' to the part number to indicate copper bond wire
1.2	28/10/2015	Russell McMillan	HTS, MSL and TC rerun for new leadframe material

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