



Date: 22 Sep 2011

Product Category: Memory; Analog (Thermal, Power Management & Safety); Analog (Linear & Mixed Signal) AND Interface; Radio Frequency Devices; 8-bit Microcontrollers

Device Family:  

Notification subject: CCB 1091: Qualification of 8L SOIC with SG-8300GM MC at ALPH (MMT) assembly site.

Notification text: PCN Status:
Initial notification

Microchip Parts Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCN_CYER-16XYMU298_Affected_CPN.xls
PCN_CYER-16XYMU298_Affected_CPN.pdf

Description of Change:
Qualification of 8L SOIC with SG-8300GM MC at ALPH (MMT) assembly site.

Pre Change:
G600V Mold Compound

Post Change:
SG-8300GM Mold Compound

Impacts to Data Sheet:
None

Reason for Change:
To improve manufacturability

Change Implementation Status:

In Progress

Estimated First Ship Date:
December 23, 2011 (date code: 1152)

NOTE: Please be advised that during the transition period customers may receive pre and post change parts, due to existing inventory of the pre changed parts.

Markings to Distinguish Revised from Unrevised Devices:
Traceability code

Revision History:
September 22, 2011: Issued initial notification.

Attachment(s):

[PCN_CYER-16XYMU298_Affected_CPN.pfd](#) [PCN_CYER-16XYMU298_Affected_CPN.xls](#)
[PCN_CYER-16XYMU298_Qual Plan.pfd](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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Product Change Notification - CYER-16XYMU298

Parts Affected

23A256
23A640
23K256
23K640
24AA00
24AA04
24AA04H
24AA08
24AA08H
24AA128
24AA16
24AA16H
24AA256
24AA32A
24AA32AF
24AA64
24AA64F
24C00
24FC256
24FC64
24LC00
24LC01B
24LC024
24LC02B
24LC04B
24LC04BH
24LC08B
24LC08BH
24LC128
24LC16B
24LC16BH
24LC21
24LC21A
24LC22A
24LC256
24LC32A
24LC32AF
24LC64
24LC64F
24LCS21A
24LCS22A
25AA040
25AA080
25AA080A

25AA080B
25AA080C
25AA080D
25AA128
25AA160
25AA160A
25AA160B
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25AA160D
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TCN75-5.0MOA713



MICROCHIP

QUALIFICATION PLAN

PCN #: CYER-16XYMU298

**Date:
Sep 16, 2011**

**Qualification of 8L SOIC with SG-8300GM MC at ALPH
(MMT).**

Distribution

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Fax (6638) 857149-50

Purpose: _____ Qualification of 8L SOIC with SG-8300GM MC at ALPH (MMT).

MP code: _____ C5AC27C2XA00

Part No.: _____ 24LC256

BD No: _____ BDM-000044 rev.A

CCB No: _____ 1091

Package:

Type _____ 8L SOIC

Width or Size _____ 300 mil

Die thickness: _____ 15 mils

Die size: _____ 105.6 x 78.3 mils

Lead frame:

Paddle size: _____ 95 x 158

Material _____ A194

Surface _____ Ag plate

Process _____ Stamp

Lead Lock _____ No

Part Number _____ 14-M4008-10

Wire:

Material _____ Au

Die Attach Epoxy:

Part Number _____ 8390A

Conductive _____ Yes

Mold Compound: _____ SG-8300GM

Reliability Test plan: _____ See attached, STD Package Reliability Test plan on each package.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	30 bonds from a minimum of 5 devices.
Wire Sweep								Required for any reduction in wire bond thickness.
External Visual	Mil. Std. 883-2009/2010	All devices prior to submission for qualification testing	0	3	ALL	0	5	
HTSL (High Temp Storage Life)	+175 C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25C and hot temp.	45	5	1	50	0	10	
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020C for package type; Electrical test pre and post stress at +25°C. Perform SAM analysis using the standard sample size. MSL-1 @ 260°C	231	15	3	738	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp. 1 lot to be tested at 85 and 125C.	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable)
Unbiased HAST	+130°C/85% RH for 96 hrs or +110°C/85% RH for 264 hrs	77	5	3	246	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress. 1 lot to be tested at 85 and 125C.	77	5	3	246	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning. For hot temp testing, pre/post test 1 lot at 85°C and 125°C (if applicable).