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Product Change Notification - CYER-22VQEA101

Date: 08 Nov 2010

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

Device Family:  

Notification subject: CCB 990.02: Qualification of 8 & 14L SOIC packages with SG-8300GM mold compound at MTAI assembly site.

Notification text:

PCN Status:
Final notification

Microchip Part#s Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCN_CYER-22VQEA101_Affected_CPN.xls
PCN_CYER-22VQEA101_Affected_CPN.pdf

Description of Change:
Qualification of 14L SOIC package with SG-8300GM mold compound at MTAI assembly site and the 8L SOIC package will qualify by similarity.

Pre Change:
G600V

Post Change:
SG-8300GM

Impacts to Data Sheet:
None

Reason for Change:
To improve productivity

Change Implementation Status:
In Progress

Estimated First Ship Date:
December 31, 2010 (Date code 1101)

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: (e.g.: Date Code, Device Marking, Ship Container Marking)
Traceability code

Attachment(s): [PCN_CYER-22VQEA101_Affected_CPN.pdf](#)
[PCN_CYER-22VQEA101_Affected_CPN.xls](#)
[PCN_CYER-22VQEA101_Qual Report.pdf](#)

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

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Parts Affected

11AA010
11AA020
11AA02E48
11AA040
11AA080
11AA160
11LC010
11LC020
11LC040
11LC080
11LC160
23A256
23A640
23K256
23K640
24AA00
24AA01
24AA014
24AA014H
24AA01H
24AA02
24AA024
24AA024H
24AA025
24AA025E48
24AA02E48
24AA02H
24AA04
24AA04H
24AA08
24AA08H
24AA128
24AA16
24AA16H
24AA256
24AA32A
24AA32AF
24AA512
24AA52
24AA64
24AA64F
24C00
24C01C

24C02C
24C08B
24FC128
24FC256
24FC512
24FC64
24LC00
24LC014
24LC014H
24LC01B
24LC01BH
24LC024
24LC024H
24LC025
24LC02B
24LC02BH
24LC04B
24LC04BH
24LC08B
24LC08BH
24LC128
24LC16B
24LC16BH
24LC21
24LC21A
24LC22A
24LC256
24LC32A
24LC32AF
24LC512
24LC64
24LC64F
24LCS21A
24LCS22A
24LCS52
24VL014
24VL014H
24VL024
24VL024H
24VL025
25AA010A
25AA020A
25AA02E48
25AA040
25AA040A

25AA080
25AA080A
25AA080B
25AA080C
25AA080D
25AA128
25AA160
25AA160A
25AA160B
25AA160C
25AA160D
25AA256
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25AA320A
25AA512
25AA640
25AA640A
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25C080
25C160
25C320
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25LC020A
25LC040
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25LC080B
25LC080C
25LC080D
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25LC160B
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25LC640A
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34LC02
34VL02

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MCP1407
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MCP14E4
MCP14E5
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MCP1727
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PIC16F636
PIC16F676
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TC1041
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TC428
TC429
TC4404
TC4405

TC4420
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TC4452
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TC621
TC622
TC623
TC624
TC642
TC642B
TC646
TC646B
TC647
TC647B
TC648
TC648B
TC649
TC649B
TC682
TC7660
TC7660H
TC7660S
TC7662B
TC77
TC9400
TCN75
TCN75A

PCN # - CYER-22VQEA101

CATALOG_PART_NBR

11AA010-I/SN

11AA010T-I/SN

11AA020-I/SN

11AA020T-I/SN

11AA02E48-I/SN

11AA02E48T-I/SN

11AA040-I/SN

11AA040T-I/SN

11AA080-I/SN

11AA080T-I/SN

11AA160-I/SN

11AA160T-I/SN

11LC010-I/SN

11LC010T-I/SN

11LC020-I/SN

11LC020T-I/SN

11LC040-I/SN

11LC040T-I/SN

11LC080-I/SN

11LC080T-I/SN

11LC160-I/SN

11LC160T-I/SN

23A256-I/SN

23A256T-I/SN

23A640-I/SN

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24LC04B-E/SN15KVAO
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24LC08BT-I/SN16KV05
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24LC128-E/SN15KV04
24LC128-E/SN15KV09
24LC128-E/SN15KVAO
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24LC128-I/SNA31
24LC128T-E/SN
24LC128T-E/SN15KV04
24LC128T-E/SN15KV05
24LC128T-E/SN15KV06
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24LC32AFT-I/SN
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24LC32A-I/SN15KV01
24LC32A-I/SN15KVAO
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24LC32A-I/SNA31
24LC32A-I/SNRVE
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24LC32AT-E/SN15KV03
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24LC32AT-I/SNA23
24LC32AT-I/SNA27
24LC32AT-I/SNA31
24LC32AT-I/SNRVE
24LC512-I/SN
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24LC64/SN
24LC64-E/SN
24LC64-E/SN15KV04
24LC64-E/SN16KVAO
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24LC64FT-E/SN
24LC64FT-I/SN
24LC64-I/SN
24LC64-I/SN100
24LC64-I/SN15KVAO

24LC64-I/SNA22
24LC64-I/SNG15KV02
24LC64-I/SNG15KVAO
24LC64-I/SNRVA
24LC64-I/SNRVE
24LC64T-E/SN
24LC64T-E/SN15KV04
24LC64T-E/SN16KVAO
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TCN75-5.0MOA713
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TCN75AVOA713



MICROCHIP

QUALIFICATION REPORT
RELIABILITY LABORATORY

PCN#: CYER-22VQEA101

Date
October 20, 2010

Qualification of 14L SOIC package with SG-8300GM mold compound at MTAI assembly site and the 8L SOIC package will qualify by similarity

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of 14L SOIC package with SG-8300GM mold compound at MTAI assembly site and the 8L SOIC package will qualify by similarity
CN	BC102191
QUAL ID	Q10089
MP CODE	C5033TD3XB04
Part No.	PIC16F676T-I/SL
Bonding No.	A-022348 Rev. F
CCB No.	990.02
<u>Package</u>	
Type	14L SOIC
Package size	150 mils
Die thickness	15 mils
Die size	81.90 x 98.5 mils
<u>Lead Frame</u>	
Paddle size	95 x 155 mils
Material	CDA194
Surface	Ag ring plating
Process	Stamped
Lead Lock	No
Part Number	10101402
<u>Die attach material</u>	
Epoxy	8390A
Wire	Au wire
Mold Compound	SG-8300GM
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTA112301717	TMPE211155993.200	1036UC8
MTA112301978	TMPE211155993.200	1036UQ8
MTA112301969	TMPE211155993.200	1036UPY

Result

Pass Fail _____

14L SOIC assembled by MTAI pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020C standard.

Prepared By: _____) Date: October 20, 2010 (Reliability Engineer)

(Mr. Udom Suksansakul)

Approved By: _____) Date: October 20, 2010 (Reliability Manager)

(Mr. Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
<u>MSL</u>								
MSL Level 1/260°C	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020C)	S12/14/16 (PDC)	135	09/13/10	09/22/10	0/135	Pass	
<u>Precondition</u>								
Electrical Test	Electrical Test : +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112301717.000)	S12/14/16 (PDC)	693(0)	09/08/10	09/13/10	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		09/14/10	09/15/10	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		09/15/10	09/22/10	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		09/22/10	09/22/10	693		
Electrical Test	Electrical Test : +25°C and 85°C System: J750 (Test 1 lot 125°C on MTA112301717.000)	S12/14/16 (PDC)		09/27/10	09/29/10	0/693	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		10/01/10	10/05/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 125°C System: J750 (Test 1 lot 125°C on MTA112301717.000)	S12/14/16 (PDC)	231(0)	10/05/10	10/11/10	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 150°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		09/13/10	10/07/10	45		45 units
	Electrical Test: +25°C and 125°C System: J750	(PDC)	45(0)	10/07/10	10/08/10	0/45	Pass	
Bond Strength Data Assembly	Bond Shear (12.40 grams)		30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)	QCI-91022	30 (0) wires	-	-	0/30	Pass	