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Product Change Notification - CYER-22OEVB041

Date: 08 Nov 2010
Product Category: Memory; RF and Security; 8-bit Microcontrollers; Analog (Thermal, Power Management & Safety)
Device Family: 
Notification subject: CCB 990.04: Qualification of 8L SOIJ package 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-22OEVB041_Affected_CPN.xls
PCN_CYER-22OEVB041_Affected_CPN.pdf

Description of Change:
Qualification of 8L SOIJ package with SG-8300GM mold compound at MTAI assembly site.

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 due to existing inventory of the pre changed parts.

Markings to Distinguish Revised from Unrevised Devices: (e.g.: Date Code, Device Marking, Ship Code Marking)
Traceability code

Attachment(s): [PCN_CYER-22OEVB041_Affected_CPN.pdf](#)
[PCN_CYER-22OEVB041_Affected_CPN.xls](#)
[PCN_CYER-22OEVB041_Qual Report.pdf](#)

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MICROCHIP

QUALIFICATION REPORT
RELIABILITY LABORATORY

PCN#: CYER-220EVB041

Date
October 21, 2010

Qualification of 8L SOIJ package with SG-8300GM mold
compound at MTAI assembly site

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of 8L SOIJ package with SG-8300GM mold compound at MTAI assembly site
CN	BC102104
QUAL ID	Q10082
MP CODE	DECR2TC3XA00
Part No.	25LC1024T-I/SM
Bonding No.	A-032157 Rev. E
CCB	990.04
<u>Package</u>	
Type	8L EIAJ
Package size	208 mils
Die thickness	15 mils
Die size	149.90 x 122.10 mils
<u>Lead Frame</u>	
Paddle size	140 x 240 mils
Material	CDA194
Surface	Ag spot
Process	Stamped
Lead Lock	No
Part Number	10100816
<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
MTA1112201059	GRSM409082727.B00	1035H7U
MTA1112201686	GRSM409082727.B00	1035JGC
MTA1112201687	GRSM409082727.B00	1035JGD

Result

Pass Fail _____

8L EIAJ (.208") 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 21, 2010 **(Reliability Engineer)**

(Mr. Udom Suksansakul)

Approved By: _____ **Date:** October 21, 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	08/31/10	09/08/10	0/135	Pass	
<u>Precondition</u>								
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI112201059.000)	S12/14/16 (PDC)	693(0)	08/26/10	08/30/10	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		08/31/10	09/01/10	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		09/01/10	09/08/10	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		09/08/10	09/08/10	693		
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI112201059.000)	S12/14/16 (PDC)		09/08/10	09/10/10	0/693	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		09/20/10	09/23/10	231		Parts had been pre-conditioned at 260°C
		QCI-33003	30(0)	09/23/10	09/23/10	0/30		
	Electrical Test: +125°C System: NEXTEST_PT (Test 1 lot 125°C on MTA112201059.000)	S12/14/16 (PDC)	231(0)	09/23/10	09/24/10	0/231	Pass	77 units / lot
Bond Strength: Bond Shear (12.40 grams) Wire Pull (> 3 grams)		QCI-91022	15 (0)	09/24/10	09/25/10	0/15	Pass	
			15 (0)	09/24/10	09/25/10	0/15	Pass	
Pressure Cooker	Stress Condition: +121°C, 100% RH, 15 PSI, 96 hrs. System: HIRAYAMA TPC-422R	PI-92013B		09/11/10	09/15/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: NEXTEST_PT	S12/14/16 (PDC)	231(0)	09/15/10	09/17/10	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Qual Report : Q10082

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		10/13/10	10/17/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 125°C System: NEXTEST_PT (Test 1 lot 125°C on MTA112201059.000)	S12/14/16 (PDC)	231(0)	10/17/10	10/20/10	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 150°C, 504 hrs System: CHINEE	PI-92014B		08/30/10	09/23/10	45		45 units
	Electrical Test: +25°C and 125°C System: NEXTEST_PT	S12/14/16 (PDC)	45(0)	09/23/10	09/24/10	0/45	Pass	
Bond Strength Data Assembly	Bond Shear (12.40 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 3 grams)		30 (0) wires	-	-	0/30	Pass	

PCN# - CYER-22OEV B041
CATALOG_PART_NBR
24AA128-I/SM
24AA128T-I/SM
24AA128T-I/SMG
24AA256/SM
24AA256-I/SM
24AA256T/SM
24AA256T-I/SM
24AA256T-I/SMG
24AA32A/SM
24AA32A-I/SM
24AA32A-I/SMG
24AA32AT/SM
24AA32AT-I/SM
24AA512-I/SM
24AA512-I/SMG
24AA512-I/SMRVE
24AA512T-I/SM
24AA512T-I/SMRVE
24AA515-I/SM
24AA515T-I/SM
24AA64-I/SM
24AA64T-I/SM
24AA65/SM
24C65/SM
24C65-I/SM
24C65T/SM
24C65T-I/SM
24C65T-I/SMG
24FC128-I/SM
24FC128T-I/SM
24FC256-I/SM
24FC256T-I/SM
24FC512-I/SM
24FC512T-I/SM
24FC515-I/SM
24FC515T-I/SM
24FC64-I/SM
24FC64T-I/SM
24LC1025-E/SM
24LC1025T-E/SM
24LC128-E/SM
24LC128-I/SM
24LC128-I/SMG
24LC128T-E/SM
24LC128T-I/SM
24LC128T-I/SMG
24LC256-E/SM
24LC256-I/SM
24LC256-I/SM15KVAO
24LC256T-E/SM

24LC256T-I/SM
24LC256T-I/SM15KVAO
24LC256T-I/SMG
24LC32A/SM
24LC32A-E/SM
24LC32A-I/SM
24LC32AT/SM
24LC32AT-E/SM
24LC32AT-I/SM
24LC32AT-I/SMG
24LC512-E/SM
24LC512-E/SM16KV01
24LC512-E/SM16KVAO
24LC512-I/SM
24LC512-I/SM16KVAO
24LC512-I/SMG
24LC512T-E/SM
24LC512T-E/SM16KV01
24LC512T-E/SM16KVAO
24LC512T-I/SM
24LC512T-I/SM16KV02
24LC512T-I/SM16KVAO
24LC512T-I/SMG
24LC515-I/SM
24LC515T-I/SM
24LC64-E/SM
24LC64-I/SM
24LC64-I/SMG
24LC64-I/SMRVE
24LC64T-E/SM
24LC64T-E/SM15KV03
24LC64T-I/SM
24LC64T-I/SMG
24LC64T-I/SMRVE
24LC65/SM
24LC65/SMG
24LC65-I/SM
24LC65-I/SMG
24LC65T/SM
24LC65T/SMG
24LC65T-I/SM
24LC65T-I/SMG
24LC65T-I/SMVAO
25AA1024-I/SM
25AA1024-I/SMB21
25AA1024T-I/SM
25AA1024T-I/SMB21
25AA128-I/SM
25AA128T-I/SM
25AA256-I/SM
25AA256-I/SMG
25AA256T-I/SM

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25LC256T-I/SM16KV03
25LC512-E/SM
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25LC512T-E/SM
25LC512T-I/SM
93AA46-I/SM
93LC66B/SM
93LC66B-I/SM
HCS1365T-I/SM035
HCS1365T-I/SM039
HCS1365T-I/SM040
HCS1365T-I/SM044
HCS1365T-I/SM073
HCS1365T-I/SM074
HCS365/SM
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HCS365T/SM
HCS365T-I/SM
HCS500/SM
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HCS500T/SM
MCP2110/SM
PIC12C508-04/SM
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PIC12C508-04I/SM
PIC12C508A-04/SM
PIC12C508A-04/SM022
PIC12C508A-04/SM048
PIC12C508A-04/SM073
PIC12C508A-04/SM127
PIC12C508A-04/SM225

PIC12C508A-04E/SM
PIC12C508A-04E/SMVAO
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PIC12C508A-04I/SM066
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PIC12C508A-04I/SMVAO
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PIC12C508AT-04/SMC28
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PIC12C508AT-04I/SM
PIC12C508AT-04I/SM023
PIC12C508AT-04I/SM029
PIC12C508AT-04I/SM030
PIC12C508AT-04I/SM060
PIC12C508AT-04I/SM112
PIC12C508AT-04I/SM137
PIC12C508AT-04I/SM142
PIC12C508AT-04I/SM144
PIC12C508AT-04I/SM145
PIC12C508AT-04I/SM194
PIC12C508AT-04I/SM216
PIC12C508AT-04I/SM218
PIC12C508AT-04I/SM220
PIC12C508AT-04I/SM222
PIC12C508AT-04I/SM223
PIC12C508AT-04I/SM224
PIC12C508AT-04I/SM226
PIC12C508AT-04I/SMVAO
PIC12C508T-04/SM
PIC12C508T-04/SM038
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PIC12LCE518T-04/SM026
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TC4421ESM
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TC4421ESMG
TC4422ESM
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TC4422ESMG
TC4422ESMG713