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Product Change Notification - CYER-220EVB041

Date: 08 Nov 2010

Product Category: Memory; RF and Security; 8-bit Microcontrollers; Analog (Thermal, Power Management & Safety)

Device Family:

7

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-220EVB041_Affected_CPN.xls PCN_CYER-220EVB041_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 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-220EVB041_Affected_CPN.pdf
PCN_CYER-220EVB041_Affected_CPN.xls

PCN CYER-220EVB041 Affected CPN.xls PCN CYER-220EVB041 Qual Report.pdf

Please contact your local Microchip sales office with questions or concerns regarding this notification.

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CYER-22OEVB041 - CCB 990.04: Qualification of 8L SOIJ package with SG-8300GM mold compound at MTAI assembly site. Parts Affected 24AA128 24AA256 24AA32A 24AA512 24AA515 24AA64 24AA65 24C65 24FC128 24FC256 24FC512 24FC515 24FC64 24LC1025 24LC128 24LC256 24LC32A 24LC512 24LC515 24LC64 24LC65 25AA1024 25AA128 25AA256 25AA512 25LC1024 25LC128 25LC256 25LC512 93AA46 93LC66B HCS365 HCS500 PIC12C508 PIC12C508A PIC12C509 PIC12C509A PIC12C671 PIC12C672 PIC12CE518 PIC12CE519 PIC12CR509A PIC12F509

Date: Monday, November 08, 2010

CYER-22OEVB041 - CCB 990.04: Qualification of 8L SOIJ package with SO site.	G-8300GM mold compound at MTAI assembly
TC4421 TC4422	
Date: Monday, November 08, 2010	

PCN# - CYER-220EVB041
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
24FC515-I/SM
24FC64-I/SM
24FC64T-I/SM
24LC1025-E/SM
24LC1025-E/SM 24LC1025T-E/SM
24LC10251-E/SW 24LC128-E/SM
24LC128-E/SM 24LC128-I/SM
24LC128-I/SMG
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
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24LC32AT-I/SM
24LC32AT-I/SMG
24LC512-E/SM
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24LC512-E/SM16KVAO
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24LC512T-E/SM16KVAO
24LC512T-E/SM16KVAO 24LC512T-I/SM
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
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24LC64T-I/SMRVE
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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
25AA10241-I/SMB21 25AA128-I/SM
25AA128T-I/SM
25AA1281-I/SM 25AA256-I/SM
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25AA512-I/SM
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93LC66B-I/SM
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HCS365T-I/SM
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MCP2110/SM
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PIC12C508A-04/SM022
PIC12C508A-04/SM048
PIC12C508A-04/SM048
PIC12C508A-04/SM127
PIC12C508A-04/SM127 PIC12C508A-04/SM225
PIC 12C506A-04/SIVI225

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F 10 120009A-041/31VIGVAO

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PIC12F509T-I/SM038
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PIC12LC671-04/SM
PIC12LC671-04I/SM
PIC12LC671T-04/SM
PIC12LC671T-04/SM
PIC12LC6711-04I/SM
FIG 12LG072-04/5IVI

PIC12LC672-04I/SM PIC12LC672T-04/SM PIC12LCE518-04/SM PIC12LCE518-04I/SM PIC12LCE518T-04/SM026 PIC12LCE519-04/SM PIC12LCE519-04I/SM
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PIC12LCE518-04I/SM PIC12LCE518T-04/SM026 PIC12LCE519-04/SM
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DIC131 CE510 041/SM
PIC 12LCE3 19-041/51VI
PIC12LCE519T-04/SM
PIC12LCE519T-04I/SM
TC4421ESM
TC4421ESM713
TC4421ESM713G
TC4421ESMG
TC4422ESM
TC4422ESM713
TC4422ESMG
TC4422ESMG713



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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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

Package

Type 8L EIAJ
Package size 208 mils
Die thickness 15 mils

Die size 149.90 x 122.10 mils

Lead Frame

Paddle size 140 x 240 mils

MaterialCDA194SurfaceAg spotProcessStamped

Lead Lock No

Part Number 10100816

Die attach material

Epoxy 8390A Wire Au wire

Mold Compound SG-8300GM
Plating Composition Matte Tin



Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTAI112201059	GRSM409082727.B00	1035H7U
MTAI112201686	GRSM409082727.B00	1035JGC
MTAI112201687	GRSM409082727.B00	1035JGD

Result	X Pass	Fail				
8L EIAJ (.20 was qualified the Mois per IPC/JEDEC J-ST		sitivity Clas				
Prepared By:		<u>)</u> Date <u>:</u> O	october 21, 2	010 (Reliabili	ity Engineer)	
(Mr.U	dom Suksansakı	ul)				
Approved By:		_) Date <u>: O</u>	ctober 21, 20	<u>)10</u> (Reliabili	ty Manager)	
(Mr	Surasit Phurikhi	ın)				

	PACKAGE QUALIFICATION REPORT	JALIFICAT	ION REF	PORT			
Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date in Date Out Def/SS. Result Remarks	SS. Resu	t Remarks

MSL								
MSL Level 1/260°C	MSL Level 1/260°C 85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	\$12/14/16	135	08/31/10	08/31/10 09/08/10	0/135	Pass	
	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	(PDC)						
	(IPC/JEDEC J-STD-020C)							

Precondition								
Electrica Test	Electrical Test :+25°C and 85°C	\$12/14/16 693(0) 08/26/10 08/30/10	(0)869	08/26/10	08/30/10	693		Good Devices
	System: NEXTEST_PT (Test 1 lot 125°C on MTAI112201059.000)	(PDC)						
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		08/31/10	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	08/08/10	693		
Convection-Reflow	3x Convection-Reflow 260°C max	PI-91160B		09/08/10 09/08/10	08/08/10	693		
	System: Vitronics Soltec MR1243							
Electrical Test	Electrical Test:+25°C and 85°C	S12/14/16		09/08/10	09/08/10 09/10/10	0/693	Pass	
	System: NEX ES _ F (Test 1 lot 125°C on MTAI112201059.000)	(PDC)						

	PACKAGE QUALIFICATION REPORT	JALIFICATI	ION REF	ORT				
Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out Def/SS.	Def/SS.		Result Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H	PI-91020B		09/20/10 09/23/10	09/23/10	231		Parts had been pre-conditioned at 260°C
	Inspection: External crack inspection all units under 40X Optical magnification	QCI-33003	30(0)	09/23/10	09/23/10	08/0		
	Electrical Test: +125°C System: NEXTEST_PT	9	231(0)	09/23/10	09/24/10	0/231	Pass	77 units / lot
	(Test 1 lot 125°C on MTAI112201059.000)	(PDC)						
	Bond Strength: Bond Shear (12.40 grams)	QCI-91022	15 (0)	09/24/10 09/25/10	09/25/10	0/15	Pass	
	Wire Pull (> 3 grams)		15 (0)	09/24/10	09/25/10	0/15	Pass	
Pressure Cooker	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	S12/14/16	231(0)	09/15/10	09/17/10	0/231	Pass	77 units / lot
		(PDC)						

PACKAGE QUALIFICATION REPORT		Missachia Ott. Bate is also and Batella
PACKA	0082	F. Citile and O to a F.

Qual Report : Q10082								
Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Result Remarks
НАЅТ	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°Cand 125°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI112201059.000)	S12/14/16 (PDC)	231(0)	10/17/10	231(0) 10/17/10 10/20/10	0/231	Pass	77 units / lot
High Temperature	Stress Condition: Bake 150°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		08/30/10	09/23/10	45		45 units
Storage Life	Electrical Test: +25°Cand 125°C System: NEXTEST_PT	(PDC)	45(0)	09/23/10	09/24/10	0/45	Pass	
Bond Strength	Bond Shear (12.40 grams)		30 (0) bonds	1	ı	0/30	Pass	
Data Assembly	Wire Pull (> 3 grams)	QCI-91022	30 (0) wires	-	1	0/30	Pass	