



130 W Cochran St, Unit B

Simi Valley, CA 93065

Tel:818-701-4933

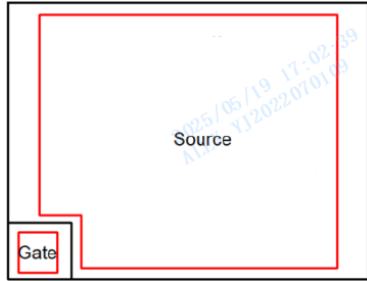
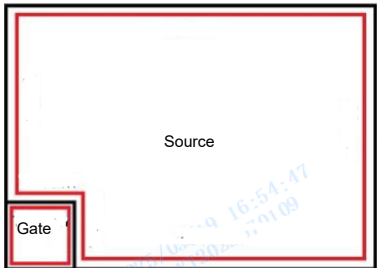
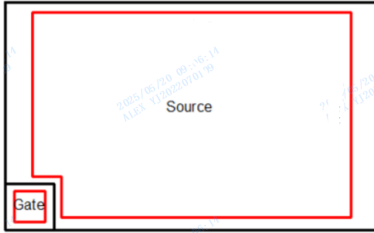
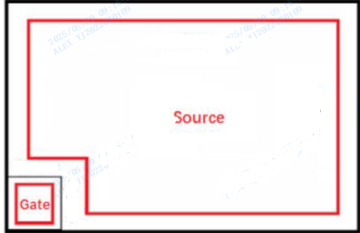
Process Change Notification (PCN)

Notification number:	052325- 1
Notification date:	23 May 2025
Proposed implementation date:	23 Aug 2025 (90 days notification before change, according to JEDEC standard)
Product type affected:	Please refer to below Appendix
Change Category	Wafer revision and upgrade
Change Classification	Major
Change description:	Extension of high-volume wafer support capability to cover increasing customer demand and support short term upside demand in a more efficient way. Remark: Full electrical characterization and high reliability testing has been completed to ensure there is no change to device functionality or electrical specifications in the datasheet
Reason for change:	To support increasing market demand and supply continuity.
Deposition of old product	Existing inventory will ship until depleted.
Identification of Changed product:	No change in datasheet electrical parameters and product performance. Identify the change based on Lot NO & DC of label.
Contact person:	Please contact your respective Account manager (AM) / Inside sales representative (ISR/CSR) if you have further query.
Approved by:	TH Koay (Director of Product) Steve Zhang (Director of Supply Chain) Seaman Wu (Director of Quality) Pamela Cheng (GM & EVP of Sales)

Appendix 1: Affect product

No.	Product type	Package
1	MCG25P03-TP	DFN3333
2	MCU20P03-TP	DPAK
3	MCG35P03A-TP	DFN3333
4	MCAC40P03-TP	DFN5060
5	MCAC30P03-TP	DFN5060
6	MCAC55P03-TP	DFN5060

Table1: Wafer Comparison

MPN	Item	Original Wafer	Upgrade Wafer
MCG25P03-TP MCU20P03-TP MCG35P03A-TP MCAC40P03-TP MCAC30P03-TP	Layout		
	Die size	1.365*1.05mm	1.503*1.063mm
MCAC55P03-TP	Layout		
	Die size	1.8*1.1mm	1.96*1.3mm



130 W Cochran St, Unit B
Simi Valley, CA 93065
Tel:818-701-4933

Reliability Report

Part Number: MCG35P03A-TP

Date: 2025-04-25

Test Results : PASS

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	$T_a = 25\text{ }^{\circ}\text{C}$	N/A	all parts	see below
* Pre-conditioning for MSL 1	JESD22A-113 1.Temperature Cycling:-40 $^{\circ}\text{C}$ ~ 60 $^{\circ}\text{C}$, 2.Bake:125 $^{\circ}\text{C}$, 3.Moisture Soak:85 $^{\circ}\text{C}$, 85%RH for MSL1; 4.Reflow*3Cycles:260 $^{\circ}\text{C}$	5Cycles; 24 hours; 168hours 3Cycles	308Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 $T_j = T_{jmax}$, 80% VDS	1000 hours	77Pcs	0
HTGB High Temperature Reverse Bias	JESD22-A108 $T_j = T_{jmax}$, 100% VGS	1000 hours	77Pcs	0
IOL Intermittent Operational Life	MIL-STD-750 Method 1037 $\Delta T_j \geq 100\text{ }^{\circ}\text{C}$, 2min ON/2min OFF	15000Cycles	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55 $^{\circ}\text{C}$ (+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 $T_a = 121\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, RH =100% $\pm$ 5%, 15 psig	96 hours	77Pcs	0
HAST High Humidity High Temperature Reverse Bias	130 $\pm$ 2 $^{\circ}\text{C}$, 85% $\pm$ 5%RH, 80%Vds (Max=42V)	96 hours	77Pcs	0

Remark : detail MSL of product refer to data sheet on MCC website.



130 W Cochran St, Unit B
Simi Valley, CA 93065
Tel:818-701-4933

Reliability Report

Part Number: MCAC55P03-TP

Date: 2025-04-25

Test Results : PASS

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	$T_a = 25\text{ }^{\circ}\text{C}$	N/A	all parts	see below
* Pre-conditioning for MSL 1	JESD22A-113 1.Temperature Cycling:-40 $^{\circ}\text{C}$ ~ 60 $^{\circ}\text{C}$, 2.Bake:125 $^{\circ}\text{C}$, 3.Moisture Soak:85 $^{\circ}\text{C}$, 85%RH for MSL1; 4.Reflow*3Cycles:260 $^{\circ}\text{C}$	5Cycles; 24 hours; 168hours 3Cycles	308Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 $T_j = T_{jmax}$, 80% VDS	1000 hours	77Pcs	0
HTGB High Temperature Reverse Bias	JESD22-A108 $T_j = T_{jmax}$, 100% VGS	1000 hours	77Pcs	0
IOL Intermittent Operational Life	MIL-STD-750 Method 1037 $\Delta T_j \geq 100\text{ }^{\circ}\text{C}$, 2min ON/2min OFF	15000Cycles	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55 $^{\circ}\text{C}$ (+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 $T_a = 121\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, RH =100% $\pm$ 5%, 15 psig	96 hours	77Pcs	0
HAST High Humidity High Temperature Reverse Bias	130 $\pm$ 2 $^{\circ}\text{C}$, 85% $\pm$ 5%RH, 80%Vds (Max=42V)	96 hours	77Pcs	0

Remark : detail MSL of product refer to data sheet on MCC website.



130 W Cochran St, Unit B

Simi Valley, CA 93065

Tel:818-701-4933

Date: 23 May 2025

PCN #: 052325-1

PCN Title: Wafer revision and upgrade

Dear Customer.

This is a PCN announcement to the above-mentioned product which is/are offered by Micro Commercial Components Corp (MCC). We would appreciate your acknowledgement of receipt of this notification within 30 days of the date of this PCN to your local ISR, sales representative.

Please refer to the attached document for more information (including implementation date / product date code of this change). If you have any questions or concerns related to this PCN, please contact your local sales representative / ISR for support. *Sincerely, MCC PCN Team*

Thank you.

Yours sincerely,

PCN Team