Micro Commercial Components

Date: August 19, 2022

PCN No#: 081922-2

PCN Title: Additional a new wafer source for MCG08P06HE3-TP

Dear Customer:

This is an announcement of change(s) to products that are currently being offered by Micro Commercial Components Corp(MCC) .We request that you acknowledge receipt of this notification within 30 days of the date of this PCN. Please refer to the implementation date of this change as it is stated in the attached PCN form. Please contact your local sales representative to acknowledge receipt of this PCN.

If you have any questions about PCN's products, please contact your local sales representative.

Sincerely,

MCC PCN Team

Micro Commercial Components

INITIAL PRODUCT CHANGE NOTICE

Notification Date	Implementation Date	Effective Date Code	Change Type	PCN No
August 19, 2022	August 19, 2022	2236	Major	081922-2

TITLE

Additional a new wafer source for MCG08P06HE3-TP

DESCRIPTION OF CHANGE

To establish dual wafer source for product MCG08P06HE3-TP to increase production capacity for market demand.

IMPACT

No change to product characteristic and its reliability performance
Table A: Marking Code Comparison;Table B: X-RAY Comparison;Table C: Typ.FT Data

PRODUCTS AFFECTED

MCG08P06HE3-TP

WEB LINKS

Terms And Conditions:	https://www.mccsemi.com/Home/TermsAndConditions
For More Information Contact:	https://www.mccsemi.com/Contact/Index
Products:	https://www.mccsemi.com/ProductCategories

DISCLAIMER

Unless a MCC Sales representative is contacted in writing within 30 days of the posting of this notice, all changes described in this announcement are considered approved.

Table A - Marking Code Comparison.		
Item	Current	New
Marking		

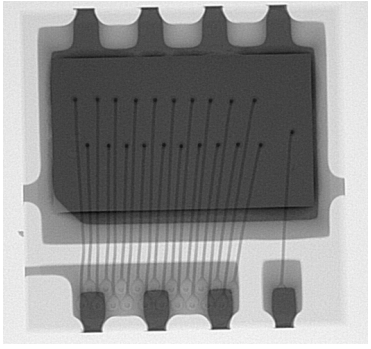
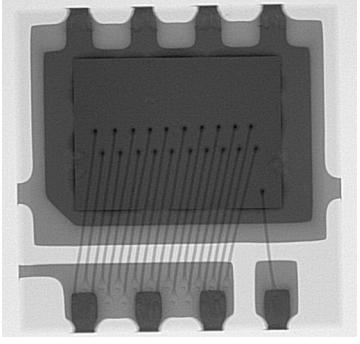
Table B - X-RAY Comparison.		
Item	Current	New
X-RAY		

Table C - Typ.FT Data					
Parameter	Test Conditions	Spec	Current (Typ.)	New(Typ.)	Unit
$V_{(BR)DSS}$	V_{GS}=0V, I_D=-250μA	-60	-69	-69	V
$R_{DS(on)}$	V_{GS}=-10V, I_D=-3A	28.4	23	20	mΩ
$V_{GS(th)}$	V_{DS}=V_{GS}, I_D=-250μA	-1~-3	-1.8	-1.8	V
V_{SD}	V_{GS}=0V, I_S=-3A	-1.3	0.8	0.8	V

Micro Commercial Components

Reliability Report

Part Number:MCG08P06HE3-TP

Date: 2022-08-19

Test Results

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	T_a = 25 °C	N/A	all parts	see below
PC Preconditioning	JESD22A-113 Bake T_a = 125 °C Soak T_a = 85 °C, RH = 85%Reflow soldering	24 hours 168 hours 3 cycles	308Pcs	0
HTRB High Temperature Reverse Bias	JESD22-A108 $T_j = T_{jmax}$, V_R > 80% VDSS	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C to T_{jmax}	1000 cycles	77Pcs	0
AC Autoclave	JESD22-A102 T_a = 121 °C, RH = 100 % Pressure = 2atm	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 T_a = 85 °C, RH = 85%, V_R > 80 % VDSS	1000 hours	77Pcs	0
IOL Intermittent Operating Life	MIL-STD-750 Method 1037 $t_{on} = t_{off}$, devices powered to insure ΔT_j = 100 °C for 15000 cycles	1000 hours	77Pcs	0
RSH Resistance to Solder Heat	JESD22-A111 / JESD22-B106 260 °C (+5,-0) °C	10 s	77Pcs	0
SD Solderability	J-STD-002 245 °C ± 5 °C	3 s	77Pcs	0
LTSL Low Temperature Storage Life	JESD22-A119 Ta≤-55℃	1000 hours	77Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 Ta≥150℃	1000 hours	77Pcs	0
HTGB High Temperature Gate Bias	JESD22-A108 150°C ,100%VGS	1000 hours	77Pcs	0