Micro Commercial Components

Date: May 10, 2023

PCN No#: 051023-1

PCN Title: Additional new wafer source

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

PRODUCT CHANGE NOTICE

Notification Date	Plan Effective Date	Change Type	Classification	PCN No
May 10, 2023	Aug 10,2023	Add new wafer source	Major	051023-1

TITLE

Additional new wafer source

DESCRIPTION OF CHANGE

In order to improve product features, MCC has determined to add a new wafer source. Internal qualification process had been finished and the result showed that the parts with new wafer exactly met our specification.

IMPACT

Update datasheet electrical parameters .
Table A: Affected Part Number. Table B: Electrical Characteristics Comparison.
Table C:Marking Code Comparison

PRODUCTS AFFECTED

SICU0660P-TP/SIC0660P-BP

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- Affeted Part Nubmer					
SICU0660P-TP/SIC0660P-BP					
Table B- Electrical Characteristics Comparison					
Item	Parameters	Test Conditions	Current	New	Unit
1	Die size	Vernier Caliper	1.1*2.27	1.6*1.6	mm
2	VF	IF=6A	1.39	1.32	V
3	IR	VR=650V	3.8	0.5	uA
4	BV	IT=250uA	800	900	V
5	QC	VR=400V	15.6	25	nC

Table E- Marking Code Comparison			
	Current	New	Remark
Marking Code	MCC XXXXX	MCC XXXXX YYWW	Add date code YY year WW week

Micro Commercial Components

Reliability Report

Part Number: SICPT4060DY-BP (SICU0660P-TP & SIC0660P-BP refer)
Date: 2022-10-25
Test Results : PASS

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	T_a = 25 °C	N/A	all parts	see below
LTSL Low Temperature Storage Life	JESD22-A11 -55℃	1000 hours	77Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 $T_j = T_{jmax}$, 80% VR	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55℃(+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
UHAST Un-bias High accelerated temperature and humidity stress test	JESD22A-118 T_a = 130 °C±2℃, RH = 85 ±5%	96 hours	77Pcs	0
HV-H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 T_a = 85 °C±2℃ , RH = 85%±5%, 80 % VR	1000 hours	77Pcs	0
IOL Intermittent Operating Life	MIL-STD-750 Method 1037 ON 2Min/OFF 2min, devices powered to insure ,$\Delta T_j \geq$ 100 °C	15000 cycles (1000 hours)	77Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 260 °C （+5， -0）	10 s	30Pcs	0
SD Solderability	J-STD-002 235 °C ± 5 °C	3 s	10Pcs	0