



Date: May15, 2023

PCN No#: 051523-1

PCN Title: Wafer Design Upgrade For Select Parts

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,

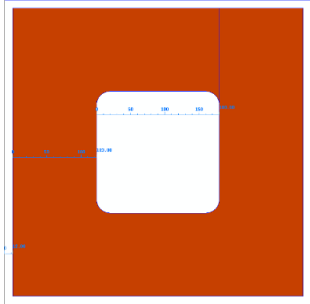
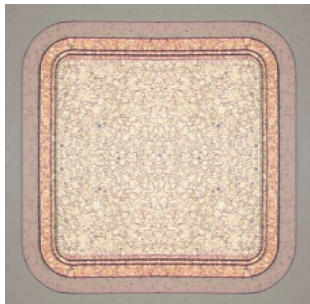
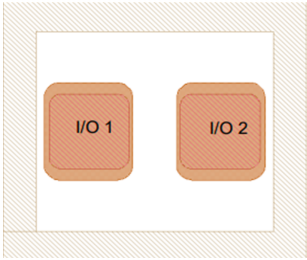
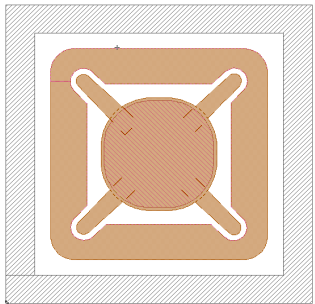
MCC PCN Team



PRODUCT CHANGE NOTICE

Notification Date	Implementation Date	Change Type	Classification	PCN No
May 15, 2023	Aug 15, 2023	Wafer Design Upgrade	Major	051523-1
TITLE				
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DESCRIPTION OF CHANGE				
To optimize wafer structure & improve capacity, MCC has determined to upgrade wafer design for ESD24VD5-TP & ESDSLC16VLB-TP. 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.				
IMPACT				
No change in datasheet electrical parameters and product performance. Table A: Chip layout comparison.				
PRODUCTS AFFECTED				
ESD24VD5-TP & ESDSLC16VLB-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 - Chip Layout Comparison

Chip layout	Old	New
ESD24VD5-TP		
ESDSL16VLB-TP		

Reliability Report

Part Number: ESD24VD5-TP

Date: 2023-02-10 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
* Pre-conditioning for MSL 1	JESD22A-113 1. Temperature Cycling: -40 °C ~60 °C, 2. Bake: 125 °C, 3.1 Moisture Soak: 85 °C , 85%RH for MSL1; 3.2 Moisture Soak: 30 °C , 60%RH for MSL3; 4. Reflow*3Cycles: 260 °C	5Cycles; 24 hours; 168hours 192hours 3Cycles	308Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 T _j = T _{jmax} , 100% VR	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C (+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C±2 °C, RH = 100 %, 15psig	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 T _a = 85 °C±2 °C , RH = 85%±5%, 100 % VR (VR MAX=100V)	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
HTSL High Temperature Storage Life	JESD22-A103 TstgMax	1000 hours	77Pcs	0

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

Reliability Report

Part Number: ESDSLC16VLB-TP

Date: 2022-12-22

Test Item	Conditions	Duration	Quantity	Rejects
TEST Pre- and Post-Stress Electrical Test	T _a = 25 °C	N/A	all parts	see below
* Pre-conditioning for MSL 1	JESD22A-113 1. Temperature Cycling: -40 °C ~ 60 °C, 2. Bake: 125 °C, 3.1 Moisture Soak: 85 °C, 85%RH for MSL1; 3.2 Moisture Soak: 30 °C, 60%RH for MSL3; 4. Reflow*3Cycles: 260 °C	5Cycles; 24 hours; 168hours 192hours 3Cycles	308Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 T _j = T _{jmax} , 100% VR	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C (+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C ± 2 °C, RH = 100 %, 15psig	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 T _a = 85 °C ± 2 °C, RH = 85% ± 5%, 100 % VR (VR MAX=100V)	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
HTSL High Temperature Storage Life	JESD22-A103 TstgMax	1000 hours	77Pcs	0

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