



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

Process Change Notification (PCN)

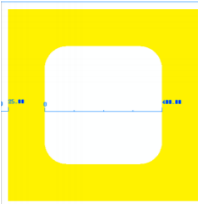
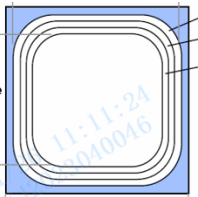
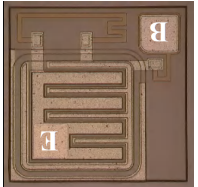
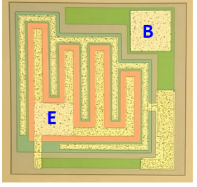
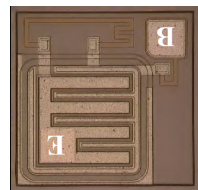
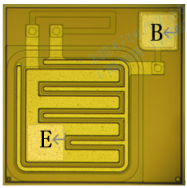
Notification number:	040924-1
Notification date:	09 Apr 2024
Proposed implementation date:	09 Jul 2024 (90 days notification before change, according to JEDEC standard)
Product type affected:	Please refer to table 1 in Appendix 1.
Change Category	Additional new 2 nd source
Change Classification	Major
Change description:	To increase our capacity of delivery for product RB551V-40-TP&MMBD2004S-TP &DDTA123YCA-TP&DDTC113ZCA-TP&DDTC123YCA-TP, MCC has determined to add a new 2 nd source for this one part. 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:	Additional new 2nd source to assure continuity of supply.
Deposition of old product	NA
Identification of Changed product:	Identify the change based on Lot NO & DC
Contact person:	Please contact your respective Account manager (AM) / Inside sales representative (ISR/CSR) if you have further query.
Approved by:	Jason Gao (Director of Engineering) Steve Zhang (Director of Supply Chain) Seaman Wu (Director of Quality) Pamela Cheng (General Manager)



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Appendix 1: Table 1

No.	Product type	Existing marking	New marking	Package type/code
1	RB551V-40-TP	D4	D4	SOD-323
2	MMBD2004S-TP	B6D	B6D	SOT-23
3	DDTA123YCA-TP	234	234	SOT-23
4	DDTC113ZCA-TP	E21A	E21A	SOT-23
5	DDTC123YCA-TP	134	134	SOT-23

Product type	Original source layout	New source layout
RB551V-40-TP		
MMBD2004S-TP		
DDTA123YCA-TP		
DDTC113ZCA-TP		



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Date: 09 Apr 2024

PCN #: 040924-1

PCN Title: Additional 2nd source for RB551V-40-TP&MMBD2004S-TP&DDTA123YCA-TP&DDTC113ZCA-TP&DDTC123YCA-TP

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. No acknowledgement from you of this PCN constitutes acceptance to the change. 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.

Yours sincerely,

MCC PCN Team



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Reliability Report

Part Number: MMBD2004S-TP

Date: 2024-03-12

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: $-40\text{ }^{\circ}\text{C} \sim 60\text{ }^{\circ}\text{C}$, 2. Bake: $125\text{ }^{\circ}\text{C}$, 3. Moisture Soak: $85\text{ }^{\circ}\text{C}$, 8 5%RH for MSL1; 4. Reflow*3Cycles: $260\text{ }^{\circ}\text{C}$	5Cycles; 24 hours; 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 $-55\text{ }^{\circ}\text{C} (+0, -10)/15\text{Min} \sim$ $150(+15, -0)/15\text{Min}$,	1000Cycles (500hours)	77Pcs	0
AC Autoclave	JESD22-A102 $T_a = 121\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, RH = 100 %, 15psig	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 $T_a = 85\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$, RH = 85% $\pm$ 5%, 100 % VR (VR MAX=100V)	1000 hours	77Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 $260\text{ }^{\circ}\text{C}$ (+5, -0)	10 s	30Pcs	0
SD Solderability	J-STD-002 $235\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$	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.



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Reliability Report

Part Number: RB551V-40-TP

Date: 2024-03-12

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
* Pre-conditioning for MSL 1	JESD22A-113 1. Temperature Cycling: -40 °C ~ 60 °C , 2. Bake: 125 °C , 3. Moisture Soak: 85 °C , 8 5%RH for MSL1; 4. Reflow*3Cycles: 260 °C	5Cycles; 24 hours; 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~ 125(+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.



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Reliability Report

Part Number: DDTA123YCA-TP

Date: 2024-04-01

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: $-40\text{ }^{\circ}\text{C} \sim 60\text{ }^{\circ}\text{C}$, 2. Bake: $125\text{ }^{\circ}\text{C}$, 3. Moisture Soak: $85\text{ }^{\circ}\text{C}$, 8 5%RH for MSL1; 4. Reflow*3Cycles: $260\text{ }^{\circ}\text{C}$	5Cycles; 24 hours; 168hours 3Cycles	308Pcs	0
HTRB High Temperature Reverse Bias	MIL-STD-750 Method 1038 $T_j = T_{jmax}$, 100% V_{cbo}	1000 hours	77Pcs	0
HAST High Accelerated Temperature and humidity Stress Test	JESD22-A110 $130\text{ }^{\circ}\text{C}$, 85%RH, 80% V_{cbo} (Max=42V)	96 hours	77Pcs	0
IOL Intermittent Operating Life	MIL-STD-750 Method 1037 $t_{on} = t_{off}$, devices powered to insure $\Delta T_j = 100\text{ }^{\circ}\text{C}$ for 15000 cycles	1000 hours	77Pcs	0
ESD Human Body Model	JESD22-A114 2 KV	N/A	30Pcs	0
RSH Resistance to Solder Heat	JESD22-B106 $260\text{ }^{\circ}\text{C}$ (+5, -0)	10 s	30Pcs	0
SD Solderability	J-STD-002 $235\text{ }^{\circ}\text{C} \pm 5\text{ }^{\circ}\text{C}$	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.