



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

Process Change Notification (PCN)

Notification number:	080824-1
Notification date:	08 Aug 2024
Proposed implementation date:	08 Nov 2024 (90 days notification before change, according to JEDEC standard)
Product type affected:	Please refer to table 1, table 2 and table 3.
Change Category	Additional new 2 nd source
Change Classification	Major
Change description:	To ensure the ability to continue business operation, it has determined with 2nd source (Dual) in case of unforeseen event interruption. 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	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 (GM & EVP of Sales)



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Appendix 1: 2nd source of Leadframe

No.	Product type	Existing marking	New marking	Package type/code
1	BAT54A-TP	KL2	KL2	SOT-23
2	BAT54A-TP-HF	KL2	KL2	SOT-23
3	BAT54S-TP	KL4	KL4	SOT-23
4	BAT54S-TP-HF	KL4	KL4	SOT-23
5	BAT64-05-TP	65S	65S	SOT-23
6	BAR43S-TP	DA5	DA5	SOT-23
7	BAR43-TP	D95	D95	SOT-23
8	MMSZ4678-TP	CC	CC	SOD-123
9	MMSZ4679-TP	CD	CD	SOD-123
10	MMSZ4680-TP	CE	CE	SOD-123
11	MMSZ4681-TP	CF	CF	SOD-123
12	MMSZ4682-TP	CH	CH	SOD-123
13	MMSZ4683-TP	CJ	CJ	SOD-123
14	MMSZ4684-13P	CK	CK	SOD-123
15	MMSZ4684-TP	CK	CK	SOD-123
16	MMSZ4685-TP	CM	CM	SOD-123
17	MMSZ4685-TP-B002	CM	CM	SOD-123
18	MMSZ4686-TP	CN	CN	SOD-123
19	MMSZ4687-TP	CP	CP	SOD-123
20	MMSZ4689-TP	CU	CU	SOD-123
21	MMSZ4690-TP	CV	CV	SOD-123
22	MMSZ4691-TP	CA	CA	SOD-123
23	MMSZ4692-TP	CX	CX	SOD-123
24	MMSZ4694-TP	CZ	CZ	SOD-123
25	MMSZ4696-TP	DD	DD	SOD-123
26	MMSZ4696-13P	DD	DD	SOD-123
27	MMSZ4697-TP	DE	DE	SOD-123



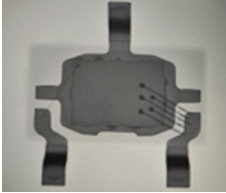

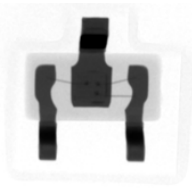

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28	MMSZ4701-TP	DK	DK	SOD-123
29	MMSZ4701-TP-B002	DK	DK	SOD-123
30	MMSZ4704-TP	DP	DP	SOD-123
31	MMSZ4706-TP	DU	DU	SOD-123
32	MMSZ4707-TP	DV	DV	SOD-123
33	MMSZ4710-TP	DY	DY	SOD-123
34	MMSZ4712-TP	EC	EC	SOD-123
35	MMSZ4715-TP	EF	EF	SOD-123
36	MMSZ4716-TP	EH	EH	SOD-123
37	BAV116W-TP	XX	XX	SOD-123
38	BAT54W-TP	L9	L9	SOD-123
39	BAS16W-TP	T4	T4	SOD-123
40	1SS388-TP	S3	S3	SOD-523
41	BAT54WX-TP	JV	JV	SOD-523
42	ESD0751P6-TP	7DA	7DA	DFN1610-2
43	ESD1051P6-TP	aDA	aDA	DFN1610-2
44	ESD1251P6-TP	cDA	cDA	DFN1610-2
45	ESD1551P6-TP	fDA	fDA	DFN1610-2
46	ESD1851P6-TP	iDA	iDA	DFN1610-2
47	ESD1051P4-TP	5101 V10	5101 V10	DFN2020-3L
48	ESD1251P4-TP	5101 V12	5101 V12	DFN2020-3L
49	ESD1551P4-TP	5101 V15	5101 V15	DFN2020-3L
50	ESD1851P4-TP	5101 V18	5101 V18	DFN2020-3L
51	ESD2451P4-TP	5101 V24	5101 V24	DFN2020-3L
52	ESDSB5V0L-TP	1L	1L	DFN1006-2
53	ESDSB3V3LB-TP	3M	3M	DFN1006-2
54	SIL2300-TP	.S0	.S0	SOT23-6L
55	SL3007-TP	3007.	3007.	SOT-23-3L
56	SI3139KE-TP/ SI3139KE-TP-HF/ SI3139KE-TPS01	39K	39K	SOT-523

Table1: Leadframe Comparison

Item	Before	After
<p style="text-align: center;">SOT-23 Example:BAR43-TP</p>		
<p style="text-align: center;">SOD-123 Example:MMSZ4689-TP</p>		
<p style="text-align: center;">SOD-523 Example: BAT54WX-TP</p>		
<p style="text-align: center;">DFN1610-2 Example: ESD0751P6-TP</p>		
<p style="text-align: center;">DFN2020-3L Example: ESD1051P4-TP</p>		
<p style="text-align: center;">DFN1006-2 Example: ESDSBSLC5V0L-TP</p>		
<p style="text-align: center;">SOT23-6L Example: SIL2300-TP</p>		



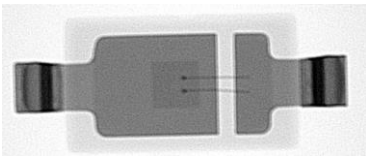
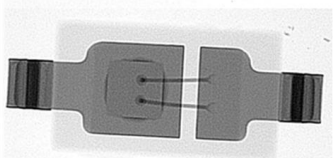
Table1: Leadframe Comparison

Item	Before	After
<p style="text-align: center;">SOT-23-3L Example:SL3007-TP</p>		
<p style="text-align: center;">SOT-523 Example: SI3139KE-TP</p>		

Appendix 2: 2nd source of Chip and Leadframe

No.	Product type	Existing marking	New marking	Package type/code
1	MBR0560-TP	R6	R6	SOD-123
2	MBR0560-TPS01	R6	R6	SOD-123
3	MBR0580-TP	R8	R8	SOD-123


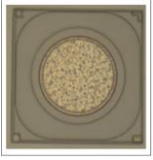






Table2: Chip and Leadframe Comparison

Item	Before	After
Example: MBR0560-TP		
		

Appendix 3: 2nd source of Chip and Appearance

No.	Product type	Existing marking	New marking	Package type/code
1	1N4148WL2-TP	T4	T4	DFN1006-2L

Table3: Chip and Appearance Comparison

Item	Before	After
1N4148WL2-TP		
	  	  



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Date: 08 Aug 2024

PCN #: 080824-1

PCN Title: Additional new 2nd source

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



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Reliability Report

Part Number: BAT54A-TP&MBR0560-TP

Date: 2024-07-04

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: BAT64-05-TP&1N4148WL2-TP

Date: 2024-07-04

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~ 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 T _{stgMax}	1000 hours	77Pcs	0

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



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Reliability Report

Part Number: MMSZ4689-TP

Date: 2024-07-04

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
SSOP Steady State Operational	MIL-STD-750 -1 Method 1038 condition B T _j = T _{jmax} , T _a =25±5 °C , PD=Max (Izm= PD/VZ)	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.



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Reliability Report

Part Number: ESD0751P6-TP

Date: 2024-06-12

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~ 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.



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Reliability Report

Part Number: ESD1051P4-TP

Date: 2024-06-12

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~ 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.



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Reliability Report

Part Number: ESDSBSLC5V0L-TP

Date: 2024-06-12

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~ 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.



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Reliability Report

Part Number: SIL2300-TP

Date: 2024-06-24

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 T _a ≤ -55 °C	1000 hours	77Pcs	0
HTSL				
High Temperature Storage Life	JESD22-A103 T _a ≥ 150 °C	1000 hours	77Pcs	0
HTGB				
High Temperature Gate Bias	JESD22-A108 150 °C, 100%VGS	1000 hours	77Pcs	0

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



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Reliability Report

Part Number:SL3007-TP

Date: 2024-06-24

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	JESD22A-113			
Preconditioning	Bake T _a = 125 °C Soak T _a = 85 °C, RH = 85% Reflow soldering	24 hours 168 hours 3 cycles	308Pcs	0
HTRB	JESD22-A108			
High Temperature Reverse Bias	T _j = T _{jmax} , V _R > 80% VDSS	1000 hours	77Pcs	0
TC	JESD22-A104			
Temperature Cycling	-55 °C to T _{jmax}	1000 cycles	77Pcs	0
AC	JESD22-A102			
Autoclave	T _a = 121 °C, RH = 100 % Pressure = 2atm	96 hours	77Pcs	0
H3TRB	JESD22-A101			
High Humidity High Temperature Reverse Bias	T _a = 85 °C, RH = 85%, V _R > 80 % VDSS	1000 hours	77Pcs	0
IOL	MIL-STD-750 Method 1037			
Intermittent Operating Life	t _{on} = t _{off} , devices powered to insure ΔT _j = 100 °C for 15000 cycles	1000 hours	77Pcs	0
RSH	JESD22-A111 / JESD22-B106			
Resistance to Solder Heat	260 °C (+5,-0) °C	10 s	77Pcs	0
SD	J-STD-002			
Solderability	245 °C ± 5 °C	3 s	77Pcs	0
LTSL	JESD22-A119			
Low Temperature Storage Life	T _a ≤ -55 °C	1000 hours	77Pcs	0
HTSL	JESD22-A103			
High Temperature Storage Life	T _a ≥ 150 °C	1000 hours	77Pcs	0
HTGB	JESD22-A108			
High Temperature Gate Bias	150 °C, 100%VGS	1000 hours	77Pcs	0

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



130 W Cochran St, Unit B
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Reliability Report

Part Number:SI3139KE-TP

Date: 2024-06-28

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 T _a ≤ -55 °C	1000 hours	77Pcs	0
HTSL				
High Temperature Storage Life	JESD22-A103 T _a ≥ 150 °C	1000 hours	77Pcs	0
HTGB				
High Temperature Gate Bias	JESD22-A108 150 °C ,100%VGS	1000 hours	77Pcs	0

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