



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

## Process Change Notification (PCN)

<b>Notification number:</b>	<b>051024-1</b>
<b>Notification date:</b>	<b>10 May 2024</b>
<b>Proposed implementation date:</b>	<b>10 Aug 2024</b> (90 days notification before change, according to JEDEC standard)
<b>Product type affected:</b>	Please refer to table 1 in Appendix 1.
<b>Change Category</b>	Assembly process / mold chase for SOD923 products
<b>Change Classification</b>	Major
<b>Change description:</b>	To add a new mold chase to increase production capacity. 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.
<b>Reason for change:</b>	To support increasing market demand and supply continuity.
<b>Deposition of old product</b>	Existing inventory will keep shipping until depleted
<b>Identification of Changed product:</b>	No changes to product marking
<b>Contact person:</b>	Please contact your respective Account manager (AM) / Inside sales representative (ISR/CSR) if you have further query.
<b>Approved by:</b>	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: Table 1

No.	Product type	Existing marking	New marking	Package type/code
1	BZX984B4V7-TP	X1.	X1.	SOD923
2	ESD12VD9-TP	C	C	SOD923
3	ESD3V3D9B-TP	3B	3B	SOD923
4	ESD3V3D9-TP	E1	E1	SOD923
5	ESD3V3D9-TP-HF	E1	E1	SOD923
6	ESD5V0D9B-TP	9C	9C	SOD923
7	ESD5V0D9B-TP-HF	9C	9C	SOD923
8	ESD5V0D9-TP	B	B	SOD923
9	ESD7V0D9-TP	9M	9M	SOD923
10	ESDLC5V0D9B-TP	1L	1L	SOD923
11	ESDLC5V0D9L-TP	LV	LV	SOD923
12	ESDLC5V0D9L-TP-HF	LV	LV	SOD923
13	ESDLC5V0D9-TP	9L	9L	SOD923
14	ESDLC5V0D9-TPCA01	9L	9L	SOD923
15	ESDLC5V0D9-TP-HF	9L	9L	SOD923
16	ESDSL5V0D9B-TP	4L	4L	SOD923
17	RB520CS-30-TP	E	E	SOD923
18	RB521CS-30-TP	F	F	SOD923

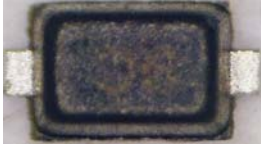





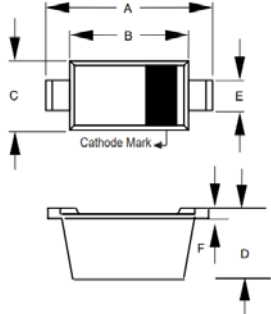


Micro Commercial Components<sup>®</sup>

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Item	Before	After																																														
Unit View-Top																																																
Unit View-Bottom																																																
Unit View-Side																																																
POD	 <table border="1" data-bbox="911 1272 1313 1480"> <thead> <tr> <th rowspan="2">DIM</th> <th colspan="2">INCHES</th> <th colspan="2">MM</th> <th rowspan="2">NOTE</th> </tr> <tr> <th>MIN</th> <th>MAX</th> <th>MIN</th> <th>MAX</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>0.037</td> <td>0.041</td> <td>0.95</td> <td>1.05</td> <td></td> </tr> <tr> <td>B</td> <td>0.030</td> <td>0.033</td> <td>0.75</td> <td>0.85</td> <td></td> </tr> <tr> <td>C</td> <td>0.022</td> <td>0.026</td> <td>0.55</td> <td>0.65</td> <td></td> </tr> <tr> <td>D</td> <td>0.014</td> <td>0.017</td> <td>0.36</td> <td>0.43</td> <td></td> </tr> <tr> <td>E</td> <td>0.006</td> <td>0.010</td> <td>0.15</td> <td>0.25</td> <td></td> </tr> <tr> <td>F</td> <td>0.003</td> <td>0.007</td> <td>0.07</td> <td>0.17</td> <td></td> </tr> </tbody> </table>		DIM	INCHES		MM		NOTE	MIN	MAX	MIN	MAX	A	0.037	0.041	0.95	1.05		B	0.030	0.033	0.75	0.85		C	0.022	0.026	0.55	0.65		D	0.014	0.017	0.36	0.43		E	0.006	0.010	0.15	0.25		F	0.003	0.007	0.07	0.17	
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Date: 10 May 2024

PCN #: 051024-1

PCN Title: Assembly process / mold chase for SOD923 products

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: ESDLC5V0D9-TP**

**Date: 2024-01-27**

**Test Results : PASS**

Test Item	Conditions	Duration	Quantity	Rejects
<b>TEST</b> Pre- and Post-Stress Electrical Test	T <sub>a</sub> = 25 °C	N/A	all parts	see below
* <b>Pre-conditioning for MSL 1</b>	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
<b>HTRB</b> High Temperature Reverse Bias	MIL-STD-750 Method 1038 T <sub>j</sub> = T <sub>jmax</sub> , 100% VR	1000 hours	77Pcs	0
<b>TC</b> Temperature Cycling	JESD22-A104 -55 °C (+0,-10)/15Min~ 150(+15,-0)/15Min,	1000Cycles (500hours)	77Pcs	0
<b>AC</b> Autoclave	JESD22-A102 T <sub>a</sub> = 121 °C±2 °C , RH = 100 % , 15psig	96 hours	77Pcs	0
<b>H3TRB</b> High Humidity High Temperature Reverse Bias	JESD22-A101 T <sub>a</sub> = 85 °C±2 °C , RH = 85%±5% , 100 % VR (VR MAX=100V)	1000 hours	77Pcs	0
<b>RSH</b> Resistance to Solder Heat	JESD22-B106 260 °C ( +5 , -0)	10 s	30Pcs	0
<b>SD</b> Solderability	J-STD-002 235 °C ± 5 °C	3 s	10Pcs	0
<b>HTSL</b> High Temperature Storage Life	JESD22-A103 T <sub>stgMax</sub>	1000 hours	77Pcs	0

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