



Date: Nov 30, 2021

PCN No#: 113021-1

PCN Title: Additional new wafer source for SOT-89 & SOT-223 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

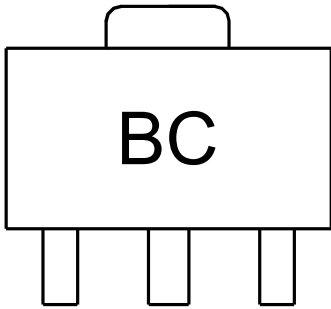
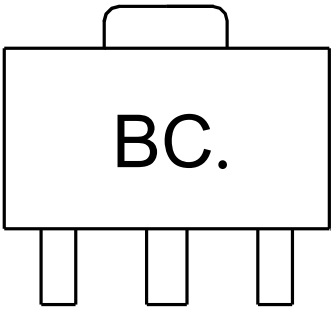


## PRODUCT CHANGE NOTICE

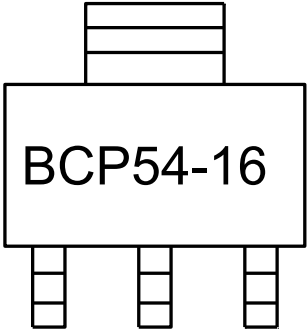
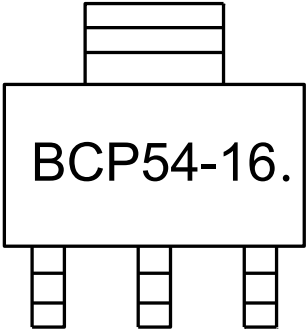
Notification Date	Implementation Date	Change Type	Classification	PCN No
Nov 30, 2021	ASAP	Add new wafer source	Major	113021-1
<b>TITLE</b>				
Additional new wafer source for SOT-89 & SOT-223 Parts				
<b>DESCRIPTION OF CHANGE</b>				
To solve our delivery issue of SOT-89 & SOT-223 Parts, MCC has determined 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.				
<b>IMPACT</b>				
No change in datasheet electrical parameters . Table A: Marking Code Comparison.				
<b>PRODUCTS AFFECTED</b>				
Table B: Affected Parts List				
<b>WEB LINKS</b>				
<b>Terms And Conditions:</b>	<a href="https://www.mccsemi.com/Home/TermsAndConditions">https://www.mccsemi.com/Home/TermsAndConditions</a>			
<b>For More Information Contact:</b>	<a href="https://www.mccsemi.com/Contact/Index">https://www.mccsemi.com/Contact/Index</a>			
<b>Products:</b>	<a href="https://www.mccsemi.com/ProductCategories">https://www.mccsemi.com/ProductCategories</a>			
<b>DISCLAIMER</b>				
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 - Marking Code Comparison**

SOT-89 Package (Example: BCX54-16)

Old	New
	

SOT-223 Package (Example: BCP54-16)

Old	New
	

**Table B: Affected Parts List**

BCP54-16-TP	2SC2383P-O-TP	BCX52-TP	BSR33-TP
PZT2907A-TP	2SC2873-Y-TP	BCX53-TP	CXT5401-TP
PZT3904-TP	2SC2881-Y-TP	BCX54-16-TP	CXT5551-TP
PZTA42-TP	2SD1664-R-TP	BCX56-TP	PXT3906-TP
2SA1213-Y-TP	2SD1898-R-TP	BD772-Y-TP	BZV49C3V3-TP
2SB1188-Q-TP	BC869-TP	BD882-Y-TP	

# Reliability Report

**Part Number: BCX54-16-TP**

**Date: 2021-11-10**

## Test Results

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>PC</b> Preconditioning	JESD22A-113 Bake T <sub>a</sub> = 125 °C Soak T <sub>a</sub> = 85 °C, RH = 85% Reflow soldering	24 hours 168 hours 3 cycles	308Pcs	0
<b>HTRB</b> High Temperature Reverse Bias	JESD22-A108 T <sub>j</sub> = T <sub>jmax</sub> , V <sub>R</sub> > 80% V <sub>CEO</sub>	1000 hours	77Pcs	0
<b>TC</b> Temperature Cycling	JESD22-A104 -55 °C to 150 °C	1000 cycles	77Pcs	0
<b>AC</b> Autoclave	JESD22-A102 T <sub>a</sub> = 121 °C, RH = 100 % Pressure = 2atm	96 hours	77Pcs	0
<b>H3TRB</b> High Humidity High Temperature Reverse Bias	JESD22-A101 T <sub>a</sub> = 85 °C, RH = 85%, V <sub>R</sub> > 80 % V <sub>CEO</sub>	1000 hours	77Pcs	0
<b>IOL</b> Intermittent Operating Life	MIL-STD-750 Method 1037 t <sub>on</sub> = t <sub>off</sub> , devices powered to insure ΔT <sub>j</sub> = 100 °C for 15000 cycles	1000 hours	77Pcs	0
<b>ESD</b> <b>Human Body Model</b>	JESD22-A114 2 KV	N/A	30Pcs	0
<b>RSH</b> Resistance to Solder Heat	JESD22-A111 / JESD22-B106 260 °C ± 5 °C	10 s	30Pcs	0
<b>SD</b> Solderability	J-STD-002 245 °C ± 5 °C	3 s	10Pcs	0
<b>LTSL</b> Low Temperature Storage Life	JESD22-A119 T <sub>a</sub> ≤ -55 °C	1000 hours	32Pcs	0
<b>HTSL</b> High Temperature Storage Life	JESD22-A103 T <sub>a</sub> ≥ 150 °C	1000 hours	77Pcs	0

# Reliability Report

**Part Number: BCP54-16-TP**

**Date: 2021-11-15**

## Test Results

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>PC</b> Preconditioning	JESD22A-113 Bake T <sub>a</sub> = 125 °C Soak T <sub>a</sub> = 85 °C, RH = 85% Reflow soldering	24 hours 168 hours 3 cycles	308Pcs	0
<b>HTRB</b> High Temperature Reverse Bias	JESD22-A108 T <sub>j</sub> = T <sub>jmax</sub> , V <sub>R</sub> > 80% V <sub>CEO</sub>	1000 hours	77Pcs	0
<b>TC</b> Temperature Cycling	JESD22-A104 -55 °C to 150 °C	1000 cycles	77Pcs	0
<b>AC</b> Autoclave	JESD22-A102 T <sub>a</sub> = 121 °C, RH = 100 % Pressure = 2atm	96 hours	77Pcs	0
<b>H3TRB</b> High Humidity High Temperature Reverse Bias	JESD22-A101 T <sub>a</sub> = 85 °C, RH = 85%, V <sub>R</sub> > 80 % V <sub>CEO</sub>	1000 hours	77Pcs	0
<b>IOL</b> Intermittent Operating Life	MIL-STD-750 Method 1037 t <sub>on</sub> = t <sub>off</sub> , devices powered to insure ΔT <sub>j</sub> = 100 °C for 15000 cycles	1000 hours	77Pcs	0
<b>ESD</b> <b>Human Body Model</b>	JESD22-A114 2 KV	N/A	30Pcs	0
<b>RSH</b> Resistance to Solder Heat	JESD22-A111 / JESD22-B106 260 °C ± 5 °C	10 s	30Pcs	0
<b>SD</b> Solderability	J-STD-002 245 °C ± 5 °C	3 s	10Pcs	0
<b>LTSL</b> Low Temperature Storage Life	JESD22-A119 T <sub>a</sub> ≤ -55 °C	1000 hours	32Pcs	0
<b>HTSL</b> High Temperature Storage Life	JESD22-A103 T <sub>a</sub> ≥ 150 °C	1000 hours	77Pcs	0