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Date: March 29, 2023

PCN No#: 032923-1

PCN Title: Additional Qualified Assembly and Test(A/T) Site for MBR0520L-TP and  
MBR0530L-TP

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.



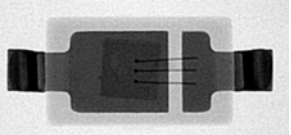
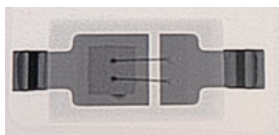


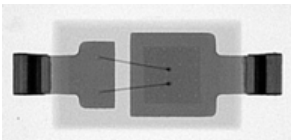

Sincerely,

MCC PCN Team

## PRODUCT CHANGE NOTICE

Notification Date	Implementation Date	Change Type	PCN No
March 29, 2023	June 29, 2023	Major	032923-1
TITLE			
Additional Qualified Assembly and Test(A/T) Site for MBR0520L-TP and MBR0530L-TP			
DESCRIPTION OF CHANGE			
To improve our current lead time for MBR0520L-TP and MBR0530L-TP, Add Additional Qualified Assembly and Test(A/T) Site for these two products. 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: Appearance & X-ray comparison;			
PRODUCTS AFFECTED			
MBR0520L-TP and MBR0530L-TP			
WEB LINKS			
Terms And Conditions:	<a href="https://www.mccsemi.com/Home/TermsAndConditions">https://www.mccsemi.com/Home/TermsAndConditions</a>		
For More Information Contact:	<a href="https://www.mccsemi.com/Contact/Index">https://www.mccsemi.com/Contact/Index</a>		
Products:	<a href="https://www.mccsemi.com/ProductCategories">https://www.mccsemi.com/ProductCategories</a>		
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 - Appearance comparison

Product	Item	Current	New
MBR0520L-TP	Marking		
	X-Ray		
MBR0530L-TP	Marking		
	X-Ray		

# Reliability Report

Part Number: MBR0530L-TP

Date: 2023-03-06

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
JESD22A-113				
* <b>Pre-conditioning for MSL 1</b>	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; 168hours 3Cycles	338Pcs	0
<b>HTRB</b> High Temperature Reverse Bias	MIL-STD-750 T <sub>j</sub> =T <sub>j</sub> max,80%VR,1000Hrs	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% , 80 % 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 TstgMax	1000 hours	77Pcs	0

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