



Date: Aug 10, 2021

PCN No#: 081021-1

PCN Title: MCC will add new wafer source for BAT42&BAT43&BAR43 series

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	Last Time Buy Ship Date	Change Type	PCN No
Aug 10, 2021	ASAP	N/A	Add new wafer source	081021-1
TITLE				
MCC will add new wafer source for BAT42&BAT43&BAR43 series				
DESCRIPTION OF CHANGE				
To solve our delivery issue of BAT42&BAT43&BAR43 series, 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.				
IMPACT				
No change in datasheet electrical parameters . Table A: Electrical characteristics comparison.				
PRODUCTS AFFECTED				
BAT42W-TP	BAT43WS-TP	BAR43A-TP		
BAT42WS-TP	BAT43X-TP	BAR43C-TP		
BAT43W-TP	BAR43-TP	BAR43S-TP		
WEB LINKS				
Terms And Conditions:	https://www.mccsemi.com/Home/TermsAndConditions			
For More Information Contact:	https://www.mccsemi.com/Contact/Index			
Products:	https://www.mccsemi.com/ProductCategories			
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 - Electrical characteristics comparison

BAT42W-TP			
Spec		Typical Value	
		Old	New
$V_{BR}>30V$	$I_T=100\mu A$	52.5V	44V
$V_F<0.4V$	$I_F=10mA$	0.330V	0.350V
$V_F<0.65V$	$I_F=50mA$	0.416V	0.430V
$V_F<1.0V$	$I_F=200mA$	0.605V	0.610V
$I_R<0.5\mu A$	$V_R=25V$	0.28 μA	0.12 μA
BAT43W-TP			
Spec		Typical Value	
		Old	New
$V_{BR}>30V$	$I_T=100\mu A$	52.5V	44V
$V_F<0.33V$	$I_F=2mA$	0.270V	0.295V
$V_F<0.45V$	$I_F=15mA$	0.345V	0.365V
$I_R<0.5\mu A$	$V_R=25V$	0.28 μA	0.12 μA
BAR43-TP			
Spec		Typical Value	
		Old	New
$V_{BR}>30V$	$I_T=100\mu A$	52.5V	44V
$V_F<0.33V$	$I_F=2mA$	0.270V	0.295V
$V_F<0.45V$	$I_F=15mA$	0.345V	0.365V
$V_F<0.8V$	$I_F=100mA$	0.485V	0.500V
$I_R<0.5\mu A$	$V_R=25V$	0.28 μA	0.12 μA

Reliability Report

Part Number:BAT43W-TP

Date: 2021-07-25

Test Results

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
HTRB High Temperature Reverse Bias	JESD22-A108 $T_j = T_{jmax}$, $V_R > 80\%$ of rated Reverse Voltage	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 $-55\text{ }^\circ\text{C}$ to T_{jmax}	1000 cycles	77Pcs	0
AC Autoclave	JESD22-A102 $T_a = 121\text{ }^\circ\text{C}$, RH = 100 % Pressure = 2atm	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 $T_a = 85\text{ }^\circ\text{C}$, RH = 85%, $V_R > 80\%$ of rated Reverse Voltage	1000 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-A111 / JESD22-B106 $260\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$	10 s	30Pcs	0
SD Solderability	J-STD-002 $245\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$	3 s	10Pcs	0
LTSL Low Temperature Storage Life	JESD22-A119 $T_a \leq -55\text{ }^\circ\text{C}$	1000 hours	32Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 $T_a \geq 150\text{ }^\circ\text{C}$	1000 hours	77Pcs	0