Micro Commercial Components

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

Micro Commercial Components

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=100μA	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<0.5μA	V_R=25V	0.28μA	0.12μA
BAT43W-TP			
Spec		Typical Value	
		Old	New
V_{BR}>30V	I_T=100μA	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<0.5μA	V_R=25V	0.28μA	0.12μA
BAR43-TP			
Spec		Typical Value	
		Old	New
V_{BR}>30V	I_T=100μA	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<0.5μA	V_R=25V	0.28μA	0.12μA

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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 °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 °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 % 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 ΔT_j = 100 °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 °C ± 5 °C	10 s	30Pcs	0
SD Solderability	J-STD-002 245 °C ± 5 °C	3 s	10Pcs	0
LTSL Low Temperature Storage Life	JESD22-A119 Ta≤-55℃	1000 hours	32Pcs	0
HTSL High Temperature Storage Life	JESD22-A103 T_a≥150℃	1000 hours	77Pcs	0