

Date: Apr 27, 2023

PCN No#: 042723-1

PCN Title: Additional Qualified Assembly and Test(A/T) Site for SOT-363 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	Plan Effective Date	Change Type	PCN No
Apr 27, 2023	Jul 27, 2023	Major	042723-1
	TITL	E	
Additional Qualified Assemb	ly and Test(A/T) Site SOT-363 Parts		
	DESCRIPTION	DF CHANGE	
SOT-363 Parts. Full electric	of SOT-363 Parts, MCC has determine cal characterization and high reliability ical specifications in the datasheet.		
	IMPA	СТ	
No change in datasheet elec Add second source wafer to Add second source Leadfra Table A: Lead frame compa	the impact products. me to some products.		
	PRODUCTS A	FFECTED	
Table B: Affected Parts List			
	WEB LI	NKS	
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	DISCLA	MER	
	sentative is contacted in writing wit ement are considered approved.	hin 30 days of the posting of this no	otice, all changes



Table A - Lead Frame Comparison			
	Old	New	
Lead Frame (Example: IMBD4448HTW-TP)			

Table : Affected Parts List			
UMD3N-TP	UMH11N-TP	UMH2N-TP	DMMT3906-TP
BC847BS-TP	UMH1N-TP	BAT54CDW-TP	BAS40DW-06-TP
BAS70DW-05-TP	MMBD4448DW-TP	BAV99BRW-TP	BAV70DW-TP
BAW56DW-TP	BAT54DW-TP	BAS70DW-06-TP	BAS40DW-04-TP
BAS40DW-04-TP-HF	BAT54BRW-TP	BAS70DW-04-TP	BAS40BRW-TP
BAT54TW-TP	BAT54SDW-TP	BAT54ADW-TP	MMBD4448HADW-TP
MMBD4448HTW-TP	BAS70BRW-TP	MMBD4448HCQW-TP	MMBD4448HCDW-TP
BAS16TW-TP	BAS40TW-TP	MMBD4148TW-TP	SD103ATW-TP
BAS70TW-TP	ESD5V0K5-TP		



Reliability Report

Part Number: BC847BS-TP

Date: 2023-01-10

Test Results

Test Item	Conditions	Duration	Quantity	Reject
TEST Pre- and Post-Stress	T _a = 25 °C	N/A	all parts	see
Electrical Test	ra - 23 0	IN/A	an parts	below
	JESD22A-113	ECualaat		
PC Preconditioning	Temperature Cycling:-40 ℃ ~ 60 ℃ Bake T _a = 125 ℃	5Cycles;		
Freconditioning	Soak $T_a = 85 \degree$ C, RH = 85%	24 hours 168 hours	308Pcs	0
	Reflow soldering	3 cycles		
HTRB High Temperature Reverse Bias	JESD22-A108 Tj = Tjmax, 80% V_{CBO}	1000 hours	77Pcs	0
TC Temperature Cycling	JESD22-A104 -55 °C to 150℃	1000 cycles	77Pcs	0
AC Autoclave	JESD22-A102 T _a = 121 °C, RH = 100 %, 15 psig	96 hours	77Pcs	0
H3TRB High Humidity High Temperature Reverse Bias	JESD22-A101 T _a = 85 °C, RH = 85%, 80 % V _R (Max=100V)	1000 hours	77Pcs	0
	MIL-STD-750 Method 1037			-
IOL Intermittent Operating Life	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	JESD22-A111 / JESD22-B106	10 s	30Pcs	0
Resistance to Solder Heat	260 °C (+5,-0) °C	10.5	501 00	0
SD	J-STD-002	3 s	10Pcs	0
Solderability	235 °C ± 5 °C,S≥95%	0.3	101 03	0
HTSL	JESD22-A103		770	0
High Temperature Storage Life	Ta≥150 ℃	1000 hours	77Pcs	0



Reliability Report

Part Number:MMBD4448HCDW-TP

Date: 2022-12-22

Test Item	Conditions	Duration	Quantity	Reject
TEST	Conditions	Durution	Quantity	Reject
Pre- and Post-Stress Electrical Test	T _a = 25 °C	N/A	all parts	see below
PC Preconditioning	JESD22A-113 Temperature Cycling:-40 \degree ~ 60 \degree Bake T _a = 125 \degree C Soak T _a = 85 \degree C, RH = 85% Reflow soldering	5Cycles; 24 hours 168 hours 3 cycles	308Pcs	0
HTRB High Temperature Reverse Bias	JESD22-A108 T _j = T _{jmax} , V _R > 80% of max. breakdown 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 breakdown voltage	1000 hours	77Pcs	0
IOL Intermittent Operating Life	MIL-STD-750 Method 1037 $t_{on} = t_{off}$, devices powered to insure $\Delta T_j = 100$ °C for 15000 cycles	1000 hours	77Pcs	0
ESD Human Body Model	JESD22-A114 4 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 Ta≥150 ℃	1000 hours	77Pcs	0