



Date: Apr 28,2023

PCN No#: 042823-1

PCN Title: MCC will switch SOT-723 package assembly line from subcontractor to own line.

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.

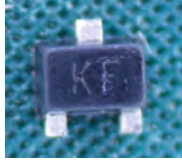
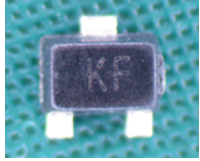
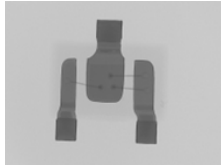
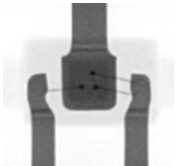
Sincerely,

MCC PCN Team

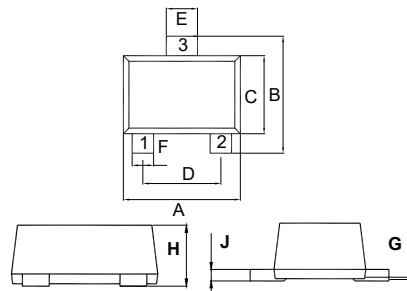


## PRODUCT CHANGE NOTICE

Notification Date	Implementation Date	Effective Date Code	Change Type	PCN No
Apr 28 , 2023	Jul 27 , 2023	2330	Major	042823-1
<b>TITLE</b>				
MCC will switch SOT-723 package assembly line from subcontractor to own line.				
<b>DESCRIPTION OF CHANGE</b>				
To improve our quality level, MCC will switch SOT-723 assembly line from subcontractor to own line. 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.				
<b>IMPACT</b>				
No change in datasheet electrical parameters and product performance. Table A: Appearance comparison; Table B: Dimension comparison; Table C: Typ.FT Data				
<b>PRODUCTS AFFECTED</b>				
SI3134K-TP				
<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 - Appearance comparison			
Product	Item	Current	New
SI3134K-TP	Marking		
	X-Ray		

**Table B - Dimension comparison**  
**SOT-723**



DIM	DIMENSIONS				NOTE	Actual measurement	
	INCHES		MM			Current	New
	MIN	MAX	MIN	MAX			
A	0.043	0.051	1.10	1.30		1.189	1.205
B	0.043	0.051	1.10	1.30		1.188	1.202
C	0.028	0.035	0.70	0.90		0.803	0.802
D	0.031		0.80		TYP.	0.805	0.803
E	0.009	0.017	0.22	0.42		0.249	0.337
F	0.005	0.013	0.12	0.32		0.197	0.208
G	0.000	0.002	0.00	0.05		0.022	0.039
H	0.017	0.021	0.43	0.54		0.444	0.475
J	0.003	0.006	0.08	0.15		0.109	0.12

**Table C - Typ.FT Data**

Product	Parameter	Test Conditions	Spec	Current (Typ.)	New(Typ.)	Unit
SI3134K-TP	V(BR)DSS	$V_{GS}=0V, I_D=250\mu A$	20	24	24	V
	RDS(on)1	$V_{GS}=4.5V, I_D=650mA$	380	150	170	mΩ
	RDS(on)2	$V_{GS}=2.5V, I_D=550mA$	450	210	230	mΩ
	RDS(on)3	$V_{GS}=1.8V, I_D=450mA$	800	310	330	mΩ
	VGS(th)	$V_{DS}=V_{GS}, I_D=250\mu A$	0.35~1.0	0.7	0.71	V
	VSD	$V_{GS}=0V, I_S=150mA$	1.2	0.77	0.79	V

## Reliability Report

Part Number:SI3134K-TP

Date: 2022-06-12

### 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% VDSS	1000 hours	77Pcs	0
<b>TC</b> Temperature Cycling	JESD22-A104 -55 °C to T <sub>jmax</sub>	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 % VDSS	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>RSH</b> Resistance to Solder Heat	JESD22-A111 / JESD22-B106 260 °C (+5,-0) °C	10 s	77Pcs	0
<b>SD</b> Solderability	J-STD-002 245 °C ± 5 °C	3 s	77Pcs	0
<b>LTSL</b> Low Temperature Storage Life	JESD22-A119 T <sub>a</sub> ≤ -55 °C	1000 hours	77Pcs	0
<b>HTSL</b> High Temperature Storage Life	JESD22-A103 T <sub>a</sub> ≥ 150 °C	1000 hours	77Pcs	0
<b>HTGB</b> High Temperature Gate Bias	JESD22-A108 150 °C , 100%VGS	1000 hours	77Pcs	0