



130 W Cochran St, Unit B
 Simi Valley, CA 93065
 Tel:818-701-4933

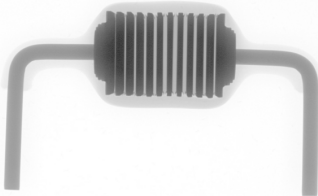

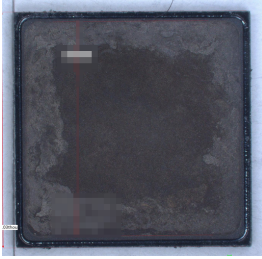
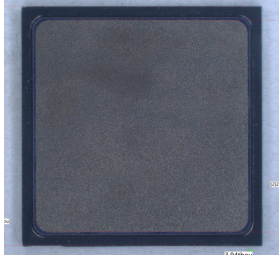
Process Change Notification (PCN)

Notification number:	012225-1
Notification date:	22 Jan 2025
Proposed implementation date:	22 Apr 2025
Product type affected:	Please refer to table 1 in Appendix 1.
Change Category	Product optimization
Change Classification	Major
Change description:	Introducing new design structure to improve product performance
Reason for change:	According to the company's development plan, improve product competitiveness
Deposition of old product	Existing inventory will ship until depleted.
Identification of Changed product:	No change in product marking. Changed product will be identified by lot code
Contact person:	Please contact your respective Account manager (AM) / Inside sales representative (ISR/CSR) if you have further query.
Approved by:	Jason Gao (Director of Engineering) Steve Zhang (Director of Supply Chain) Seaman Wu (Director of Quality) Pamela Cheng (GM & EVP of Sales)



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Appendix 1: Table 1

AK3-380C-BP product design changes				
Category	From		To	
Xray				
Die				
Die size	260mil*11		250mil*13	
List of Affected Parts				
AK1-076C-BP	AK6-058C-BP	AK6-240C-BP	AK10-076C-BP	AK10-380C-BP
AK3-058C-BP	AK6-066C-BP	AK6-380C-BP	AK10-170C-BP	AK10-430C-BP
AK3-066C-BP	AK6-076C-BP	AK6-430C-BP	AK10-190C-BP	AK15-058C-BP
AK3-076C-BP	AK6-170C-BP	AK10-058C-BP	AK10-200C-BP	AK15-076C-BP
AK3-430C-BP	AK6-190C-BP	AK10-066C-BP	AK10-240C-BP	AK3-030C-BP
AK3-380C-BP				

Notes:

- 1、 Only the standard part numbers are listed in the parts list, No special part number is included.
- 2、 AK3-380C is used as the representative to explain the change information, for reference only. The specific optimization of each part number is subject to the actual situation.



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PCN #: 012225-1

PCN Title: Product optimization

Dear Customer.

This is a PCN announcement to the above-mentioned product which is/are offered by Micro Commercial Components Corp (MCC). We would appreciate your acknowledgement of receipt of this notification within 30 days of the date of this PCN to your local ISR, sales representative. Please refer to the attached document for more information (including implementation date / product date code of this change). If you have any questions or concerns related to this PCN, please contact your local sales representative / ISR for support. Sincerely, MCC

PCN Team

Thank you.

Yours sincerely,

PCN Team



Micro Commercial Components

Reliability Report

Part Number: TVS AK Series

Test Results : PASS

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	MIL-STD-750 Method 1038 $T_j = T_{jmax}, 80\% \text{ VR}$	500 hours	22 Pcs	0
TC Temperature Cycling	JESD22-A104 $55\text{ }^\circ\text{C} (+0,-10)/15\text{Min} \sim$ $150(+15,-0)/15\text{Min},$	500 Cycles	22 Pcs	0
HAST High Humidity High Temperature Reverse Bias	$130 \pm 2\text{ }^\circ\text{C}, 85\% \pm 5\% \text{RH},$ $80\% \text{VR (Max=42V)}$	48 hours	22 Pcs	0
UHAST Unbiased Highly Accelerated Stress Test	JESD22 A-118 $130\text{ }^\circ\text{C}, 85\text{ }^\circ\text{C} \% \text{RH}$	48 hours	22 Pcs	0
SD Solderability	J-STD-002 $245\text{ }^\circ\text{C} \pm 5\text{ }^\circ\text{C}$	5 s	10Pcs	0