



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Micro Commercial Components



Micro Commercial Components  
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# AK1-076C THRU AK15-076C

## Features

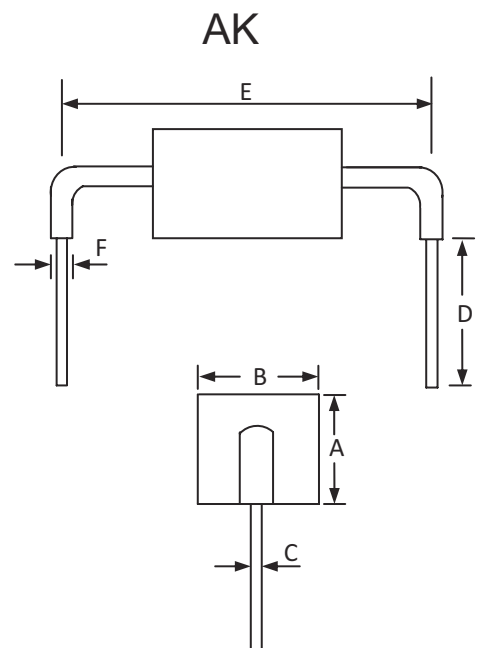
- Axial Lead Terminals
- High Current Transient Suppressor
- Excellent Clamping Capability
- Glass Passivated Junction
- Bi-directional
- Low Slope Resistance
- Repetition Rate(duty cycle):0.01%
- Halogen Free
- High Temperature Soldering:260°C/10 Seconds at Terminals
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensivity Level 1

## AK Series TVS Diodes 58-430 Volts

## Maximum Ratings And Thermal Characteristics

Parameter	Symbol	Value	Unit	
Current Rating, Rated IPP Measured With 8/20us Pulse	I <sub>pp</sub>	AK1	1	KAmps
		AK3	3	
		AK6	6	
		AK10	10	
		AK15	15	
Operating Junction and Storage Temperature Range	T <sub>J</sub> T <sub>STG</sub>	-55 to +150	°C	

Notes: 1. High Temperature Solder Exemption Applied, see EU Directive Annex Notes 7



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	---	.630	---	16.00	
B	---	.709	---	18.00	
C	.047	.052	1.20	1.32	
D	.197	---	5.00	---	
E	.922	.979	23.43	24.87	
F	---	.157	---	4.00	

**Electrical Characteristics( $T_A=25^{\circ}\text{C}$  unless otherwise noted)**

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage	Test Current	Surge Current Rating	Maximum Clamping Voltage	Reverse Leakage
	VAC(V)	VDC(V)	VBR(V) MIN.@IT	IT(mA)	8/20us (KA)	VC(V) @IPP	IR(uA) @VDC
AK1-076C	54	76	83	10	1	135	20
AK3-058C	40	58	64	10	3	110	20
AK3-066C	45	66	70	10	3	125	20
AK3-076C	54	76	85	10	3	140	20
AK3-380C	275	380	401	10	3	520	20
AK3-430C	310	430	440	10	3	625	20
AK6-058C	40	58	64	10	6	110	20
AK6-066C	45	66	70	10	6	125	20
AK6-076C	54	76	83	10	6	135	20
AK6-170C	130	170	180	10	6	260	20
AK6-190C	145	190	200	10	6	290	20
AK6-240C	180	240	250	10	6	340	20
AK6-380C	275	380	401	10	6	520	20
AK6-430C	310	430	440	10	6	625	20
AK10-058C	40	58	64	10	10	110	20
AK10-066C	45	66	70	10	10	125	20
AK10-076C	54	76	83	10	10	135	20
AK10-170C	130	170	180	10	10	260	20
AK10-190C	145	190	200	10	10	290	20
AK10-200C	150	200	222	10	10	330	20
AK10-240C	180	240	250	10	10	340	20
AK10-380C	275	380	401	10	10	520	20
AK10-430C	310	430	440	10	10	625	20
AK15-058C	40	58	64	10	15	110	20
AK15-076C	54	76	85	10	15	145	20

**Ratings and Characteristics Curves ( $T_A=25^{\circ}\text{C}$  unless otherwise noted)**

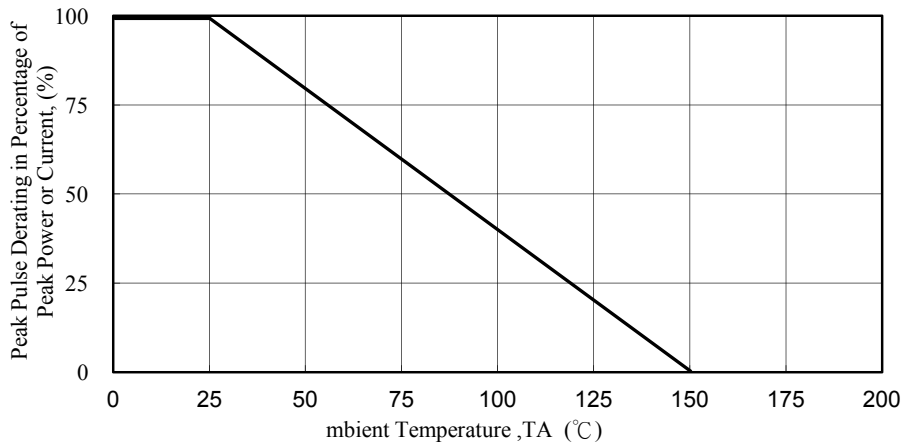


Fig. 1 - Pulse Derating Curve





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## Ordering Information

Device	Packing
(Part Number)-BP	Bulk:150pcs/Box

Note : Adding "-HF" suffix for halogen free, eg. Part Number-TP-HF

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