Micro Commercial Components

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AK1-076C THRU AK15-076C

AK Series
TVS Diodes
58-430 Volts

Features

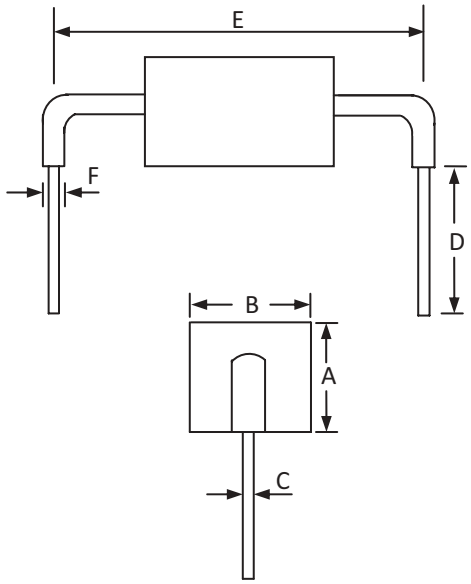
- Axial Lead Terminals
- High Current Transient Suppressor
- Excellent Clamping Capability
- Glass Passivated Junction
- Bi-directional
- Low Slope Resistance
- Repetition Rate(duty cycle):0.01%
- Halogen Free
- High Temperature Soldering:260°C/10 Seconds at Terminals
- Lead Free Finish/Rohs Compliant (Note1) ("P"Suffix designates Compliant. See ordering information)
- Epoxy meets UL 94 V-0 flammability rating
- Moisture Sensitivity Level 1
- UL Approved, UL File#: E480232

Maximum Ratings And Thermal Characterics

Parameter	Symbol	Value		Unit
Current Rating,Rated IPP Measured With 8/20us Pulse	Ipp	AK1	1	KAmps
		AK3	3	
		AK6	6	
		AK10	10	
		AK15	15	
Operating Junction and Storage Temperature Range	T_J T_{STG}	-55 to+150		°C

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

AK



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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°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(μA) @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 °C unless otherwise noted)

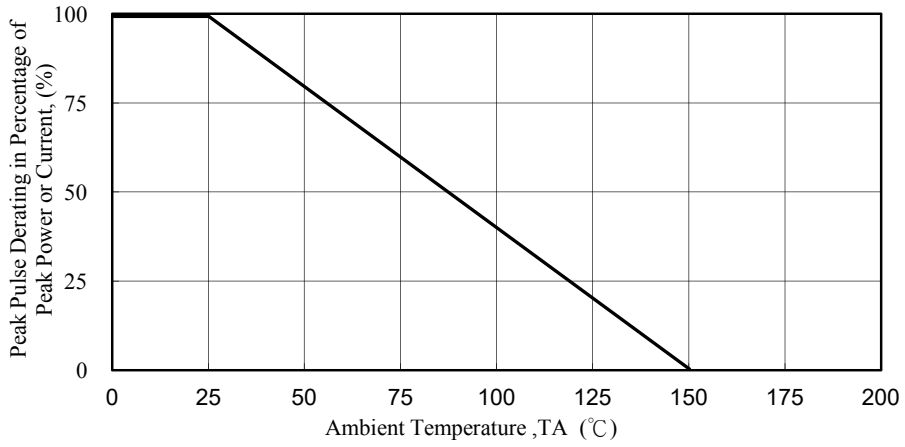
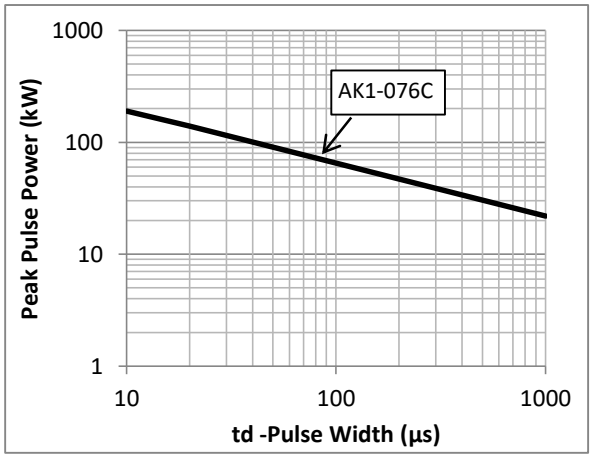
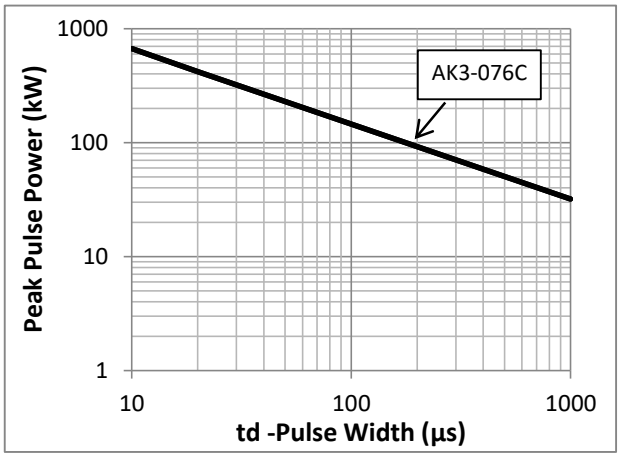
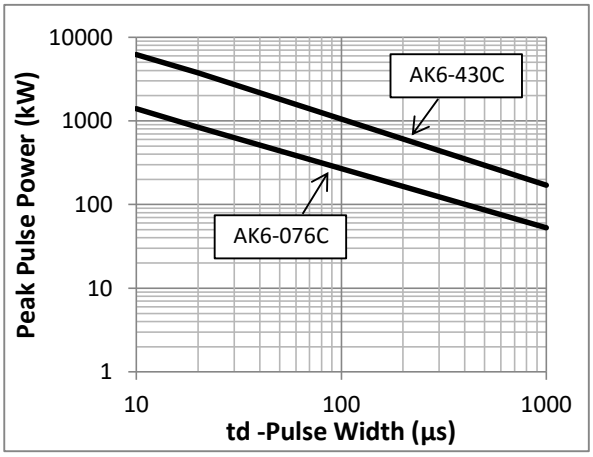


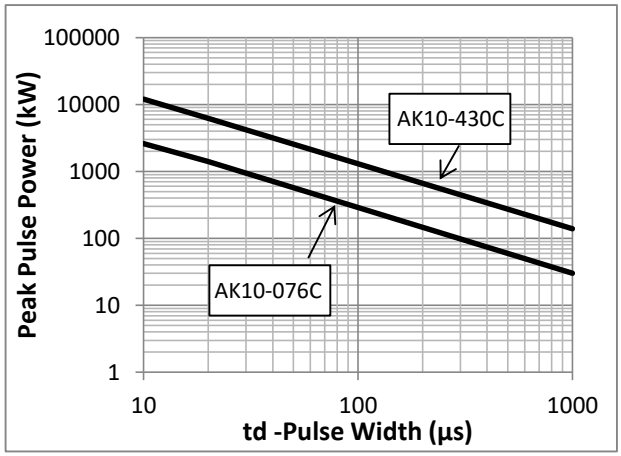
Fig. 1 - Pulse Derating Curve

Typical Peak Pulse Power Rating Curve









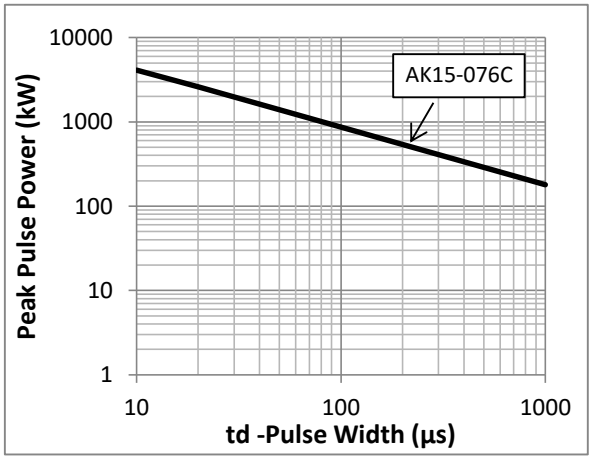


Fig.2 Peak Pulse Power Rating Curve

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Ordering Information

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

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

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