

	<b>E480232</b>
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**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%
- High Temperature Soldering:260°C/10 Seconds at Terminals
- Halogen Free Available Upon Request By Adding Suffix "-HF"
- Epoxy Meets UL 94 V-0 Flammability Rating
- Lead Free Finish/RoHS Compliant(Note 1) ("P" Suffix Designates Compliant. See Ordering Information)

**Maximum Ratings**

- Operating Junction Temperature Range: -55°C to +150°C
- Storage Temperature Range: -55°C to +150°C

Current Rating, Rated $I_{PP}$ Measured With 8/20us Pulse	$I_{PP}$	1KAmps	AK1
		3KAmps	AK3
		6KAmps	AK6
		10KAmps	AK10
		15KAmps	AK15

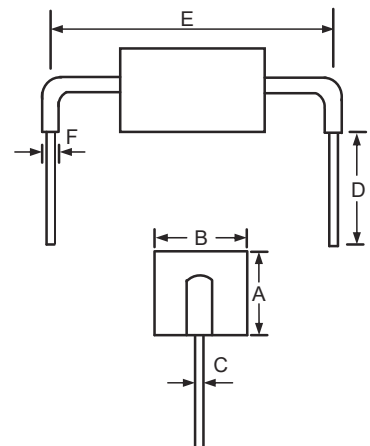
1.High Temperature Solder Exemption Applied, see EU Directive Annex 7a.

Pin Configuration



# AK Series TVS Diodes 30-430 Volts

AK



DIM	DIMENSIONS				NOTE
	INCHES		MM		
	MIN	MAX	MIN	MAX	
A	----	0.630	----	16.00	
B	----	0.709	----	18.00	
C	0.047	0.052	1.20	1.32	
D	0.197	----	5.00	----	
E	0.922	0.979	23.43	24.87	
F	----	0.157	----	4.00	

**Electrical Characteristics @ 25°C Unless Otherwise Specified**

Part Number	Reverse Stand- Off Voltage		Breakdown Voltage	Test Current	Surge Current Rating	Maximum Clamping Voltage	Reverse Leakage
	V <sub>AC</sub> (V)	V <sub>DC</sub> (V)	V <sub>BR</sub> (V) MIN.@I <sub>T</sub>	I <sub>T</sub> (mA)	8/20us (KA)	V <sub>C</sub> (V) @I <sub>PP</sub>	I <sub>R</sub> (μA) @V <sub>DC</sub>
AK1-076C	54	76	83	10	1	135	20
AK3-030C	20	30	32	10	3	90	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

Curve Characteristics

Fig. 1 - Pulse Derating Curve

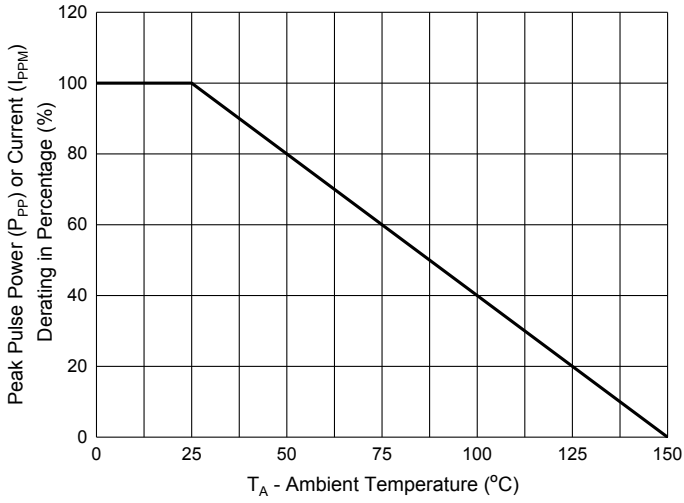


Fig. 2 - Peak Pulse Power Rating Curve

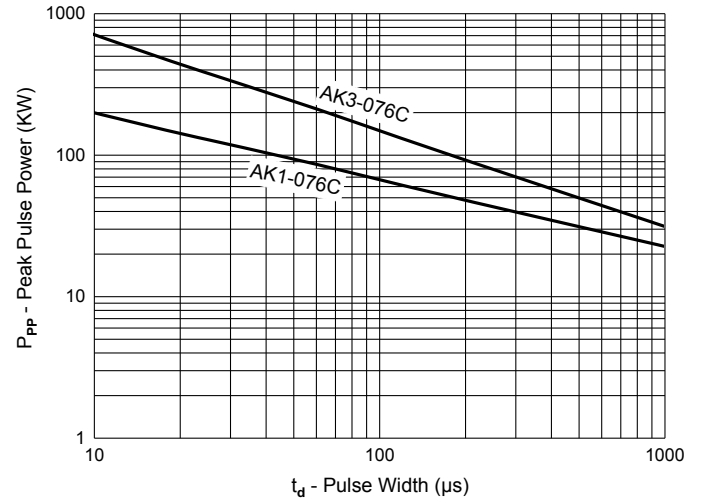


Fig. 3 - Peak Pulse Power Rating Curve

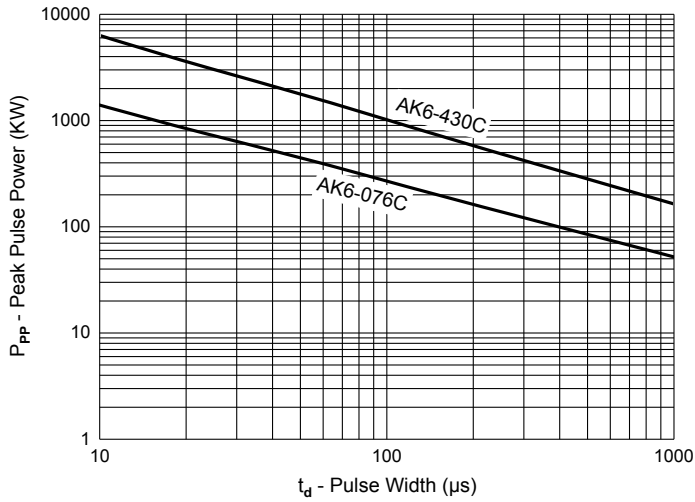
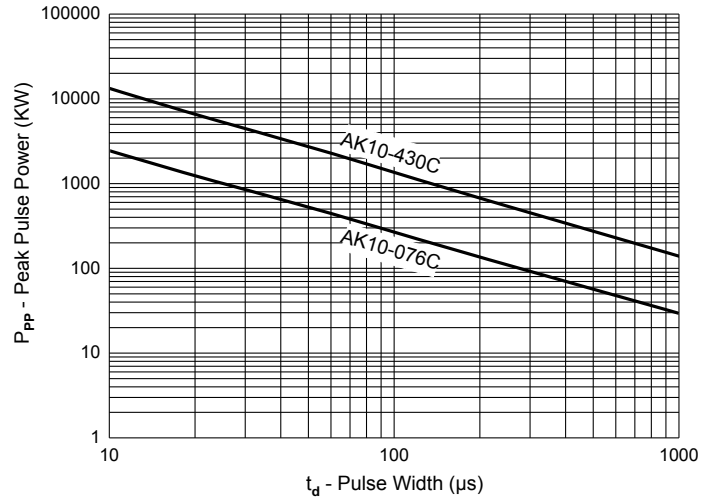


Fig. 4 - Peak Pulse Power Rating Curve



## Ordering Information

Device	Packing
AK1/AK3/AK6/AK10 Series	Bulk:150pcs/Box,1800pcs/Carton
AK15 Series	Bulk:80pcs/Box,960pcs/Carton

Note : Adding "-HF" Suffix For Halogen Free, eg. Part Number-BP-HF

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