	E480232

AK Series
TVS Diodes
30-430 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%
- 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

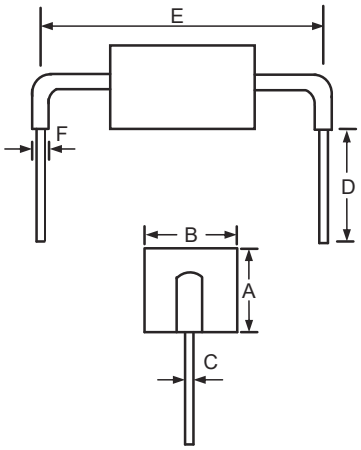
Current Rating,Rated I_{PP} Measured With 8/20us Pulse	I_{PP}	1KAmps 3KAmps 6KAmps 10KAmps 15KAmps	AK1 AK3 AK6 AK10 AK15

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

Pin Configuration



AK



DIMENSIONS					
DIM	INCHES		MM		NOTE
	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_{AC}(V)	V_{DC}(V)	V_{BR}(V) MIN.@I_T	I_T(mA)	8/20us (KA)	V_C(V) @I_{PP}	I_R(μA) @V_{DC}
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

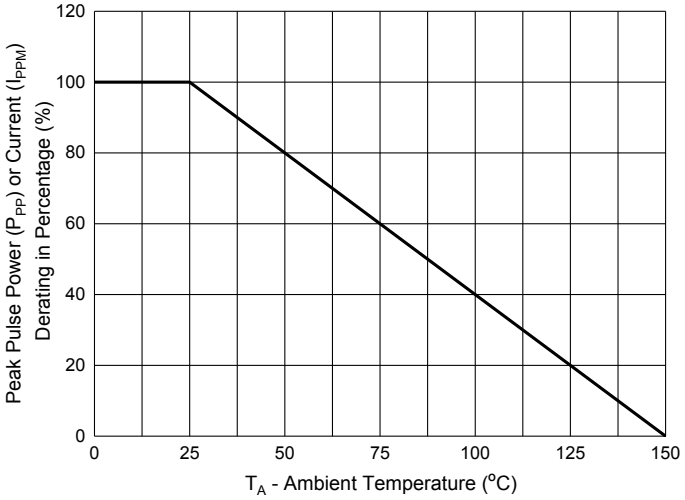


Fig. 2 - Peak Pulse Power Rating Curve

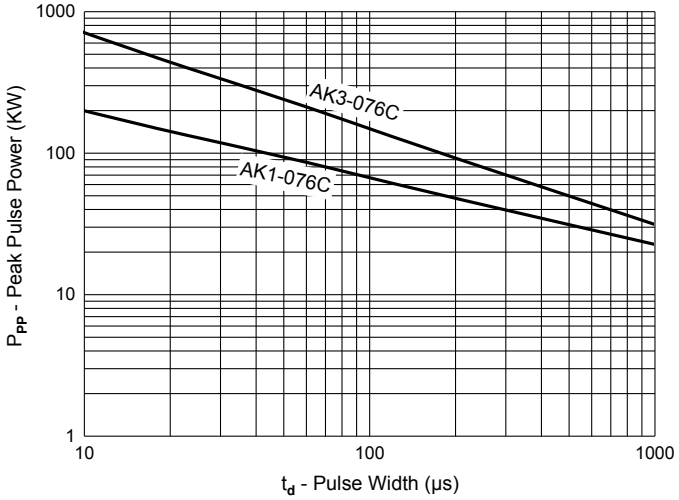


Fig. 3 - Peak Pulse Power Rating Curve

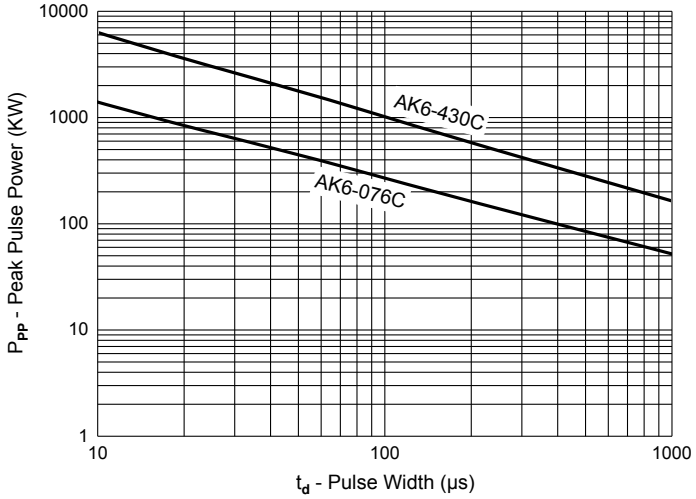
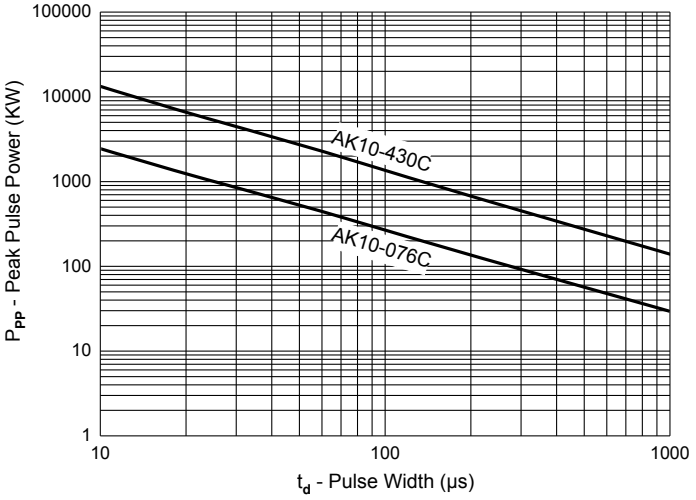


Fig. 4 - Peak Pulse Power Rating Curve



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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