	<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<sup>(Note 1)</sup> ("P" Suffix Designates Compliant. See Ordering Information)

### Maximum Ratings

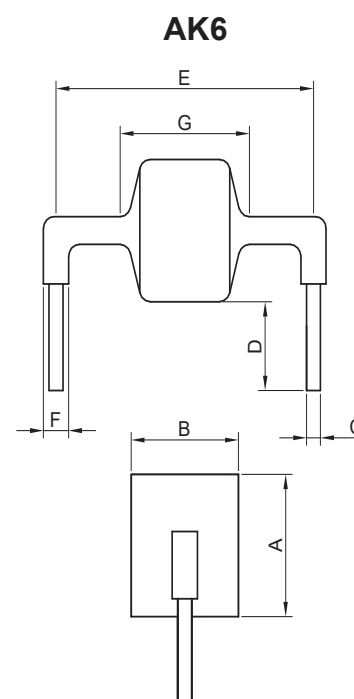
Parameter	Symbol	Value	Unit
Operating Junction Temperature Range	T <sub>J</sub>	-55 to +150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to +150	°C
Current Rating, Rated IPP Measured With 8/20us Pulse	IPP	AK6    6	KA

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

### Internal Structure and Marking Code

Description	Graphic symbol
Bi-directional	

## AK Series TVS Diodes



DIM	INCHES		MM		NOTE
	MIN	MAX	MIN	MAX	
A	--	0.571	--	14.50	
B	--	0.500	--	12.70	
C	0.047	0.052	1.20	1.32	
D	0.256	0.296	6.50	7.50	
E	0.922	0.979	23.43	24.87	
F	0.070	0.158	1.80	4.00	
G	0.173	0.292	4.40	7.40	-058C
	0.173	0.292	4.40	7.40	-066C
	0.206	0.325	5.25	8.25	-076C
	0.275	0.394	7.00	10.00	-170C
	0.307	0.425	7.80	10.80	-190C
	0.340	0.459	8.65	11.65	-240C
	0.472	0.591	12.00	15.00	-380C
	0.511	0.630	13.00	16.00	-430C

**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	Marking
	V <sub>AC</sub> (V)	V <sub>DC</sub> (V)	V <sub>BR</sub> (V) MIN. @IT	V <sub>BR</sub> (V) MAX. @IT	I <sub>T</sub> (mA)	8/20us (KA)	VC(V) @IPP	IR(μA) @VDC	
AK6-058C	40	58	64	70	10	6	110	20	AK6058C
AK6-066C	45	66	70	80	10	6	125	20	AK6066C
AK6-076C	54	76	83	95	10	6	135	20	AK6076C
AK6-170C	130	170	180	220	10	6	260	20	AK6170C
AK6-190C	145	190	200	245	10	6	290	20	AK6190C
AK6-240C	180	240	250	285	10	6	340	20	AK6240C
AK6-380C	275	380	401	443	10	6	520	20	AK6380C
AK6-430C	310	430	440	490	10	6	625	20	AK6430C

**Curve Characteristics**

Fig. 1 - Pulse Derating Curve

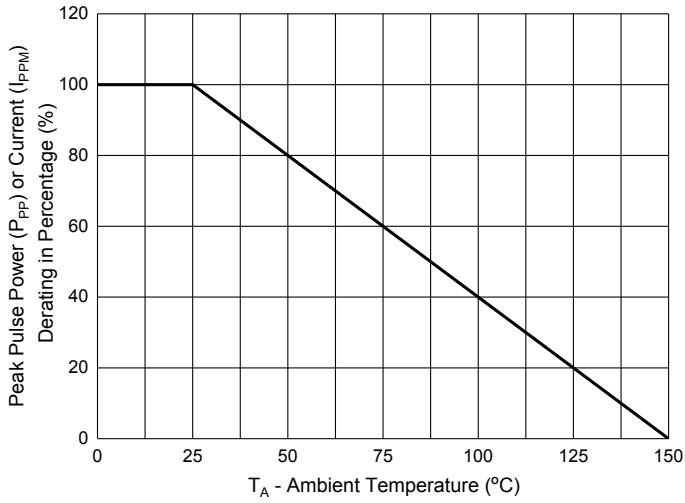
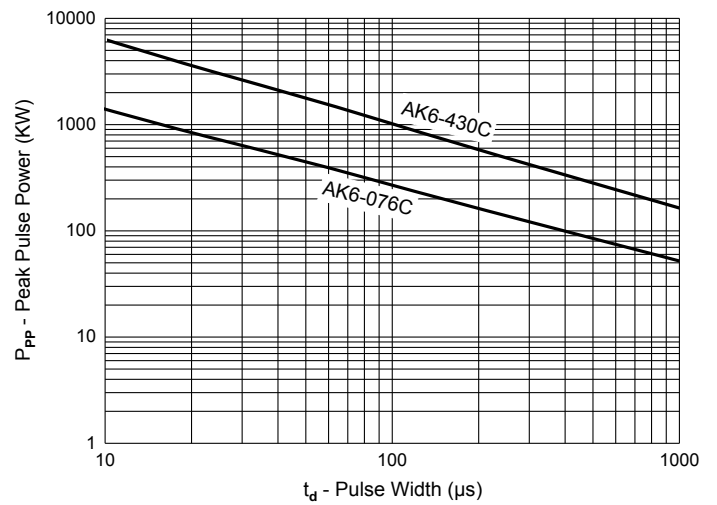


Fig. 2 - Peak Pulse Power Rating Curve



## Ordering Information

Device	Packing
AK6 Series	Bulk:150pcs/Box,1800pcs/Carton

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

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