



E480232

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

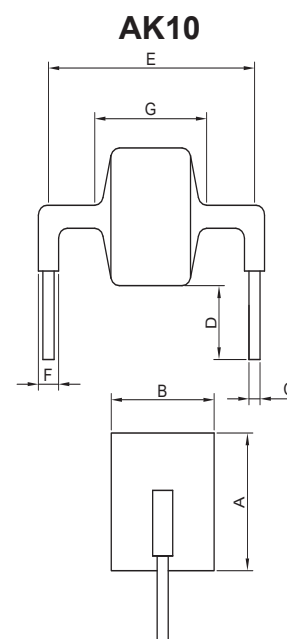
Parameter	Symbol	Value		Unit
Operating Junction Temperature Range	T _J	-55 to +150		°C
Storage Temperature Range	T _{STG}	-55 to +150		°C
Current Rating, Rated IPP Measured With 8/20us Pulse	IPP	AK10	10	KA

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	--	0.630	--	16.00	
B	--	0.571	--	14.50	
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	0.291	4.40	7.40	-058C
	0.173	0.291	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	-200C
	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 _{AC} (V)	V _{DC} (V)	V _{BR} (V) MIN.@IT	V _{BR} (V) MAX.@IT	I _T (mA)	8/20us (KA)	VC(V) @IPP	IR(μA) @VDC	
AK10-058C	40	58	64	70	10	10	110	20	AK10058C
AK10-066C	45	66	70	80	10	10	125	20	AK10066C
AK10-076C	54	76	83	95	10	10	135	20	AK10076C
AK10-170C	130	170	180	220	10	10	260	20	AK10170C
AK10-190C	145	190	200	245	10	10	290	20	AK10190C
AK10-200C	150	200	222	260	10	10	330	20	AK10200C
AK10-240C	180	240	250	285	10	10	340	20	AK10240C
AK10-380C	275	380	401	443	10	10	520	20	AK10380C
AK10-430C	310	430	440	490	10	10	625	20	AK10430C

Curve Characteristics

Fig. 1 - Pulse Derating Curve

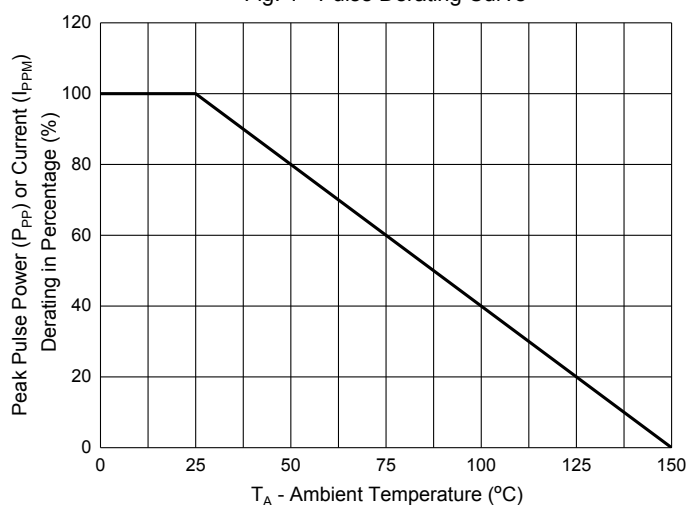
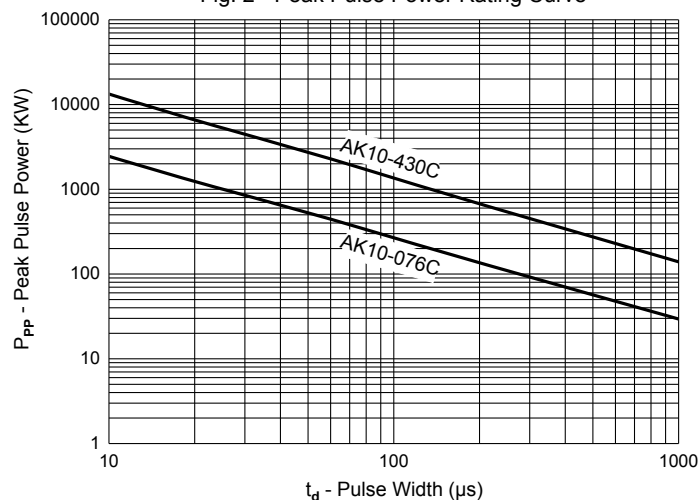


Fig. 2 - Peak Pulse Power Rating Curve



Ordering Information

Device	Packing
AK10 Series	Bulk: 150pcs/Box, 1800pcs/Carton

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

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