HUAAN 华兴安电子 HUAAN LIMITED

AK10-015C Thru AK10-530C

8x20uS 10KA Transient Voltage Suppressors

TVS Diodes - 10KA > AK10 Series

RoHS

Mechanical Data

Terminal: Ag Plated leads, solderable per MIL-STD-750,Method 2026

Mounting Position: any

Features

- **Glass passivated junction**
- **Bi-directional**
- **RoHS compliant**
- **10KA Surge capability at 8 x 20uS waveform(per IEC-61000-4-5)**
- **Excellent clamping capability**
- **Coating powder has underwriters Laboratory Flammability Classification 94V-0**
- **Operation and storage Temperature:**-40℃ to +125℃

Electrical Characteristics

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage V_{BR}@I_T		Test Current	Maximum Clamping Voltage @IPP	Peak Pulse Current 8/20uS	Maximum Energy	Reverse Leakage @V_{RWM}	Delivery Time
	V_{AC}	V_{DC}	Min(V)	Max(V)	$I_{T(mA)}$	$V_{C(V)}$	I_{PP}	10/1000uS	$I_{R(\mu A)}$	Days
AK10-015C	11V	15V	16	19	10	85	10KA	2160A	10	15days
AK10-020C	14V	20V	22	24	10	90	10KA	2660A	10	15days
AK10-025C	17V	25V	28	30	10	95	10KA	3160A	10	15days
AK10-030C	21V	30V	32	37	10	100	10KA	4000A	10	15days
AK10-042C	30V	42V	47	51	10	105	10KA	5660A	10	15days
AK10-058C	40V	58V	64	70	10	110	10KA	8160A	10	15days
AK10-066C	45V	66V	72	80	10	120	10KA	8660A	10	15days
AK10-076C	54V	76V	85	95	10	140	10KA	9320A	10	15days
AK10-100C	72V	100V	110	120	10	165	10KA	14150A	10	15days
AK10-133C	100V	133V	147	162	10	220	10KA	17650A	10	15days
AK10-170C	130V	170V	179	220	10	260	10KA	23310A	10	15days
AK10-190C	145V	190V	200	245	10	290	10KA	27970A	10	15days
AK10-200C	150V	200V	223	246	10	330	10KA	28640A	10	15days

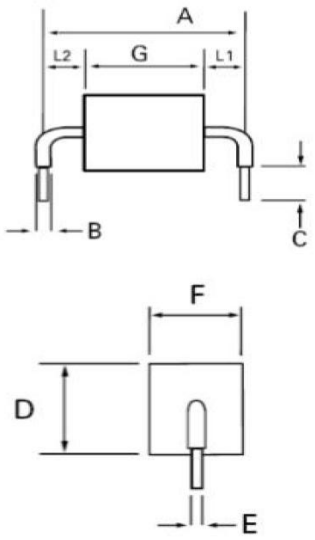
Electrical Characteristics

RoHS

Part Number	Reverse Stand-Off Voltage		Breakdown Voltage V_{BR}@I_T		Test Current	Maximum Clamping Voltage @IPP	Peak Pulse Current 8/20uS	Maximum Energy	Reverse Leakage @V_{RWM}	Delivery Time
	V_{AC}	V_{DC}	Min(V)	Max(V)	$I_{T(mA)}$	$V_{C(V)}$	I_{PP}	10/1000uS	$I_{R(\mu A)}$	Days
AK10-240C	169V	240V	250	285	10	340	10KA	29970A	10	15days
AK10-380C	275V	380V	401	443	10	520	10KA	-	10	15days
AK10-430C	310V	430V	440	490	10	625	10KA	49950A	10	15days
AK10-530C	385V	530V	560	619	10	750	10KA	-	10	15days

Dimensions

Dimendions	Inches	Millimeters
A	0.95±0.04	24.15±1.00
B	0.095±0.024	2.40±0.6
C-030/058/066/076	0.236±0.04	6.00±1.00
C	0.145±0.04	3.68±1.00
D	0.57max.	14.48max
E	0.05±0.002	1.27±0.05
F	0.500max.	12.7max.
G-030	0.167±0.04	4.23±1.00
G-058/066/076	0.20±0.04	5.08±1.00
G-170/190	0.362±0.04	9.2±1.00
G-240	0.42±0.04	10.67±1.00
G-380/430	0.65±0.04	16.5±1.00
L1	0.31±0.04	7.87±1.00
L1-030	0.393±0.04	9.96±1.00
L1-380/430	0.17±0.04	4.50±1.00
L2=A-(G-L1)tolerance±0.04inch(1.0mm)		



Ratings and Characteristics Curve

Fig.1 - Test Pulse Waveform

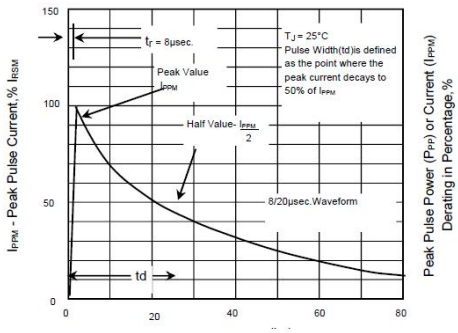


Fig.2 - Pulse Derating Curve