

8x20uS 15KA Transient Voltage Suppressors

TVS Diodes - 15KA > AK15 Series



Mechanical Data

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

Mounting Position: any

Features

- Glass passivated junction
- Bi-directional
- RoHS compliant
- 15KA 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 $V_{BR@IT}$		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
AK15-015C	11V	15V	16	19	10	85	15KA	3460A	20	15days
AK15-020C	14V	20V	22	24	10	90	15KA	4260A	20	15days
AK15-025C	17V	25V	28	30	10	95	15KA	5060A	20	15days
AK15-030C	21V	30V	32	37	10	100	15KA	6400A	20	15days
AK15-042C	30V	42V	47	51	10	105	15KA	9060	20	15days
AK15-058C	40V	58V	64	70	10	110	15KA	13060	20	15days
AK15-066C	45V	66V	72	80	10	120	15KA	13860	20	15days
AK15-076C	54V	76V	85	95	10	140	15KA	14920	20	15days
AK15-100C	72V	100V	110	120	10	165	15KA	22650	20	15days
AK15-133C	100V	133V	147	162	10	220	15KA	28250	20	15days
AK15-170C	130V	170V	179	220	10	260	15KA	37310	20	15days
AK15-190C	145V	190V	200	245	10	290	15KA	44770	20	15days
AK15-200C	150V	200V	223	246	10	330	15KA	45840	20	15days

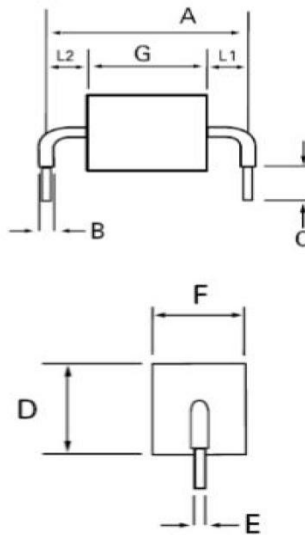
Electrical Characteristics



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)						
AK15-240C	169V	240V	250	285	10	340	15KA	-	20	15days
AK15-380C	275V	380V	401	443	10	520	15KA	-	20	15days
AK15-430C	310V	430V	440	490	10	625	15KA	-	20	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 ± 0.04 inch (1.0mm)		



Ratings and Characteristics Curve

Fig.1 - Test Pulse Waveform

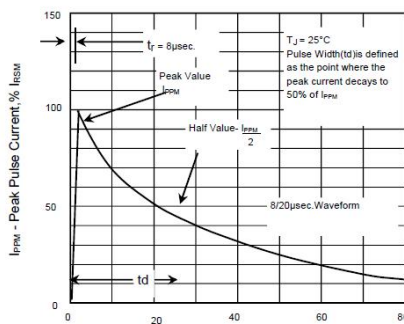


Fig.2 - Pulse Derating Curve

