10000A Transient Voltage Suppressors

Features

- Excellent clamping capability.
- Sharp Breakdown Voltage.
- Low Slope Resistance
- Glass passivated junction.
- Bi-directional.
- RoHS compliant in lead-free versions.





Maximum Ratings And Characteristics @ 25°C Ambient Temperature (unless otherwise noted)

Parameter	Symbol	Value	Units
Current Rating (IPP) at 8/20us Waveform (Note 1)	I_{PPM}	10000	A
Operating Junction Temperature Range	T_J	-55 to 150	°C
Storage Temperature Range	T_{STG}	-55 to 150	°C

Electrical Specification @ 25°C Ambient Temperature (unless otherwise noted)

Type Number	Reverse Stand-Off Voltage	Reverse Leakage @V_{RMW}	Breakdown Voltage Min. @I_T	Breakdown Voltage Max. @ I_T	Test Current	Maximum Clamping Voltage @I_{PP}	Peak Pulse Current	Max. Temp Coefficient of V_{BR}
(uni)	V_{RMW}(V)	I_R(uA)	$V_{BR\ MIN}$(V)	$V_{BR\ MAX}$(V)	I_T (mA)	V_C(V)	I_{PP}(A)	(%/℃)
AK10-058C	58	20	64	70	10	110	10000	0.1
AK10-170C	170	20	180	220	10	260	10000	0.1
AK10-190C	190	20	200	245	10	290	10000	0.1
AK10-240C	240	20	250	285	10	400	10000	0.1
AK10-380C	380	20	401	443	10	520	10000	0.1
AK10-430C	430	20	440	490	10	625	10000	0.1

Note 1. Using 8/20 us wave shape as defined in IEC 61000.4.5

Ratings and Characteristic Curves T_A=25°C unless otherwise noted

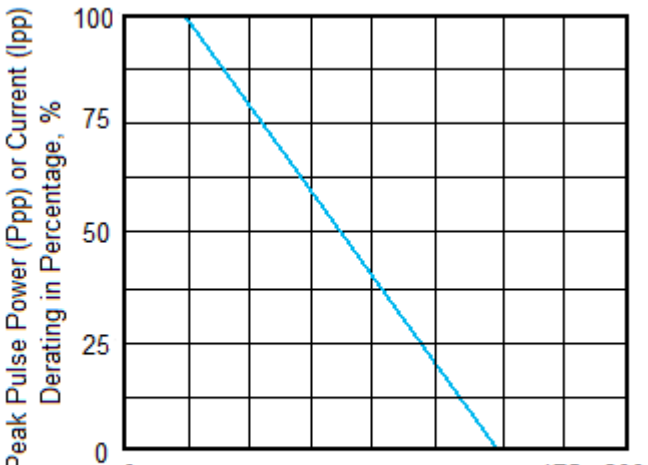


Fig.1 Pulse Derating Cure

Package Outline Dimensions and Pad Layouts

