



## Changshu Talent Semiconductors Co.,Ltd

New Product Announcement  
20th May.2011

### New Introduction for 10000A TVS

#### Replace to other manufacturers' Parts

CTS PN	LITTELFUSE PN
AK10-058C~~AK10-430C	AK10-058C~~AK10-380C



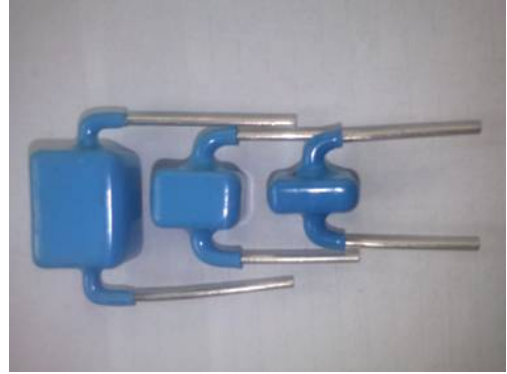
Changshu Talent  
Semiconductors Co.,Ltd  
Tel:0086-512-52851998  
Fax:0086-512-52153129

**AK10-058C  
THRU  
AK10-430C**

## 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)

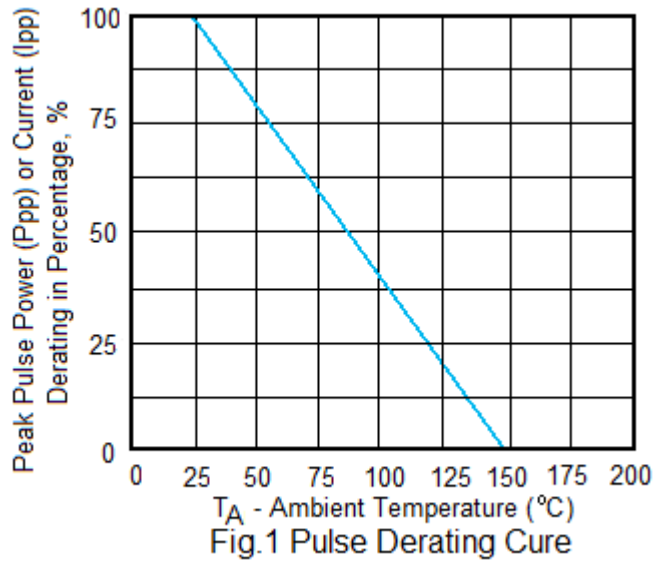
Parameter	Symbol	Value	Units
Current Rating (IPP) at 8/20us Waveform (Note 1)	I <sub>PPM</sub>	10000	A
Operating Junction Temperature Range	T <sub>J</sub>	-55 to 150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to 150	°C

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

Type Number	Reverse Stand-Off Voltage	Reverse Leakage @V <sub>RMW</sub>	Breakdown Voltage Min. @I <sub>T</sub>	Breakdown Voltage Max. @ I <sub>T</sub>	Test Current	Maximum Clamping Voltage @I <sub>PP</sub>	Peak Pulse Current	Max. Temp Coefficient of V <sub>BR</sub>
(uni)	V <sub>RMW</sub> (V)	I <sub>R</sub> (uA)	V <sub>BR MIN</sub> (V)	V <sub>BR MAX</sub> (V)	I <sub>T</sub> (mA)	V <sub>C</sub> (V)	I <sub>PP</sub> (A)	(%/°C)
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 $T_A=25^\circ\text{C}$ unless otherwise noted



## Package Outline Dimensions and Pad Layouts

