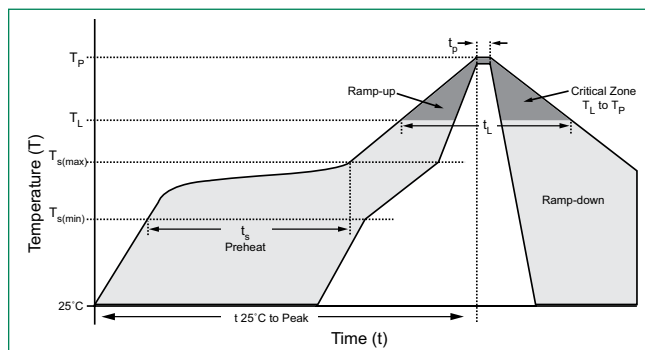


Soldering Parameters

Reflow Condition		Lead-free assembly
Pre Heat	- Temperature Min ($T_{s(min)}$)	150°C
	- Temperature Max ($T_{s(max)}$)	200°C
	- Time (min to max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak)		3°C/second max
$T_{s(max)}$ to T_L - Ramp-up Rate		3°C/second max
Reflow	- Temperature (T_L) (Liquidus)	217°C
	- Time (min to max) (t_s)	60 – 150 seconds
Peak Temperature (T_p)		260 ^{+0/-5} °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		6°C/second max
Time 25°C to peak Temperature (T_p)		8 minutes Max.
Do not exceed		280°C



Flow/Wave Soldering (Solder Dipping)

Peak Temperature :	265°C
Dipping Time :	10 seconds
Soldering :	1 time

Physical Specifications

Weight	Contact manufacturer
Case	Epoxy encapsulated
Terminal	Silver plated leads, solderable per MIL-STD-750, Method 2026

Ratings and Characteristic Curves ($T_A=25^\circ\text{C}$ unless otherwise noted)

Figure 1 - Peak Power Derating

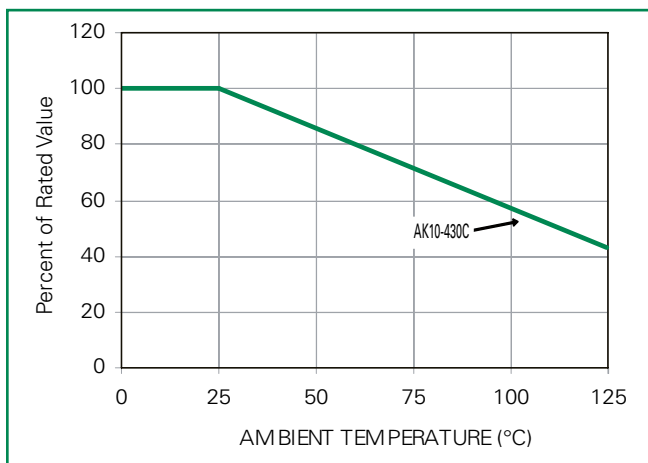


Figure 2 - Surge Response

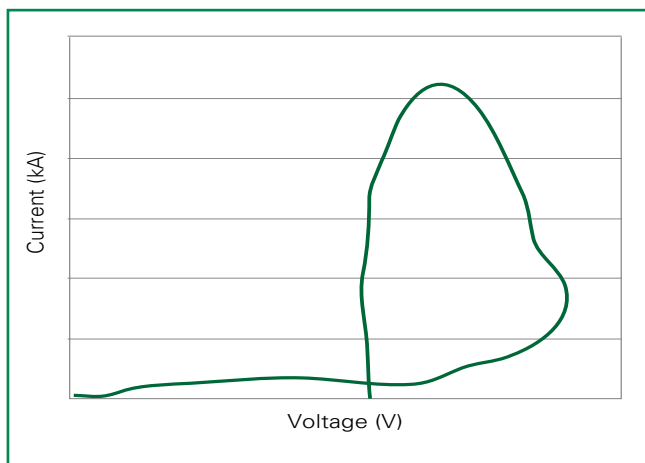
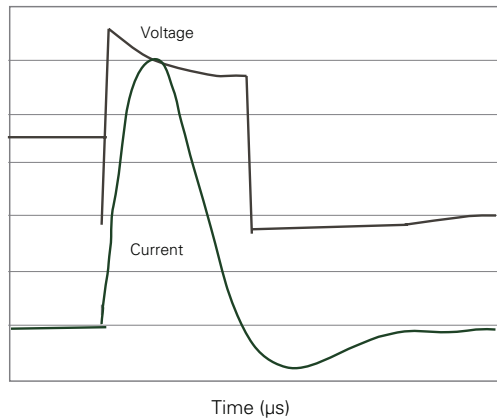


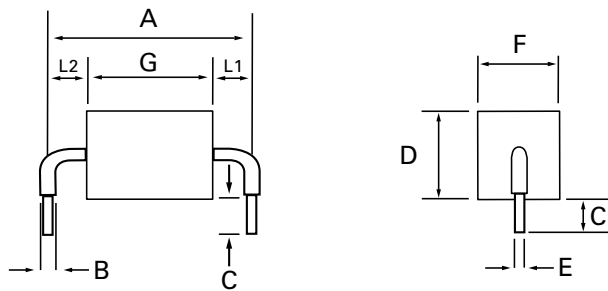
Figure 3 - Surge Response (8/20 Surge current waveform)



Notes:

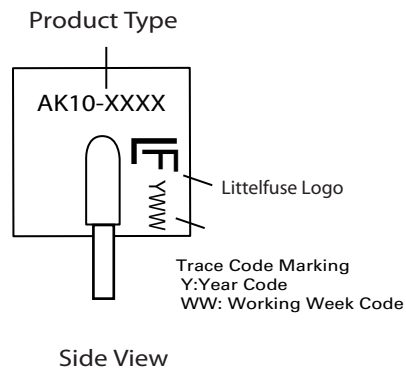
1. Foldback characteristic reduce the clamping voltage to near the breakdown voltage
2. The power dissipation causes a change in avalanche voltage during the surge and the avalanche voltage eventually returns to the original value when the transient has passed

Dimensions

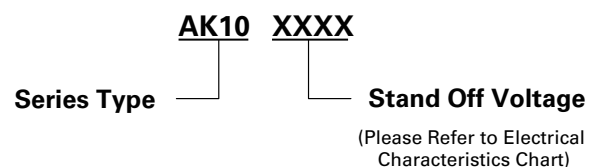


Dimensions	Inches	Millimeters
A	0.950 +/- 0.04	24.15 +/- 1.00
A - 530C	1.370 +/- 0.08	34.70 +/- 2.00
B	0.095 +/- 0.024	2.40 +/- 0.60
C	0.145 +/- 0.04	3.68 +/- 1.00
C - 030C/058C 066C/076C 530C	0.236 +/- 0.04	6.00 +/- 1.00
D	0.570 max.	14.48 max.
E	0.050 +/- 0.002	1.27 +/- 0.05
F	0.500 max.	12.70 max.
G - 030C	0.167 +/- 0.04	4.23 +/- 1.00
G - 058C/066C 076C	0.200 +/- 0.04	5.08 +/- 1.00
G - 170C/190C	0.362 +/- 0.04	9.20 +/- 1.00
G - 240C	0.420 +/- 0.04	10.67 +/- 1.00
G - 380C/430C	0.650 +/- 0.04	16.50 +/- 1.00
G - 530C	1.060 +/- 0.06	27.00 +/- 1.50
L1	0.310 +/- 0.04	7.87 +/- 1.00
L1 - 030C	0.393 +/- 0.04	9.96 +/- 1.00
L1 - 380C/430C	0.170 +/- 0.04	4.5 +/- 1.00
L1 - 530C	0.150 +/- 0.04	3.81 +/- 1.00
L2= A - (G+L1) tolerance +/- 0.04 inch (1.0 mm)		

Part Marking System



Part Numbering System



Packing Options

Part Number	Component Package	Quantity	Packaging Option
AK10-XXXX	AK Package	56	Bulk