AK3 Series
Axial Leaded – 3kA

Physical Specifications

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

Flow/Wave Soldering (Solder Dipping)

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

Wave Solder Profile

Figure 1:
Non Lead-free Profile

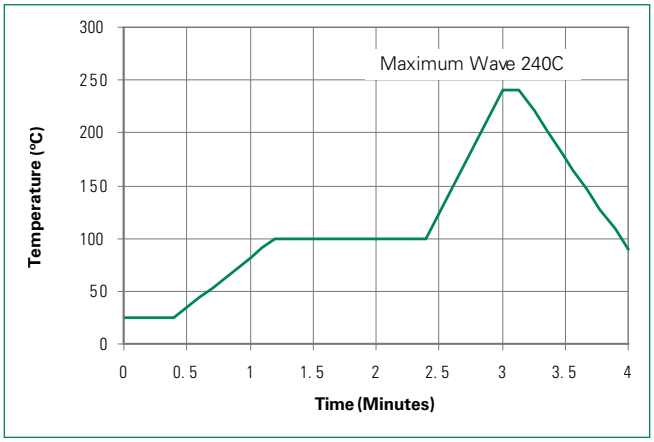
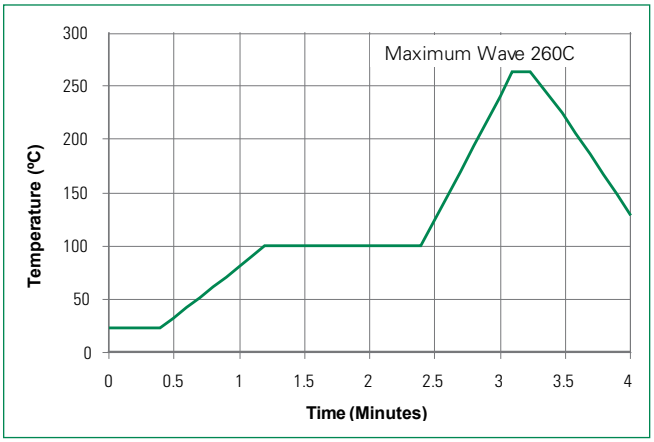


Figure 2:
Lead-free Profile



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

Figure 3:
Peak Power Derating

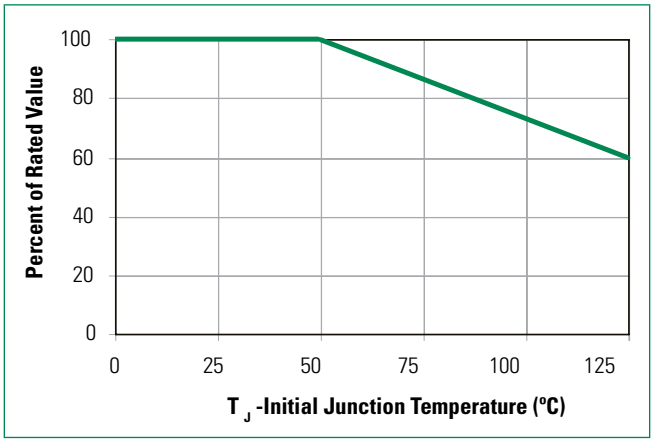
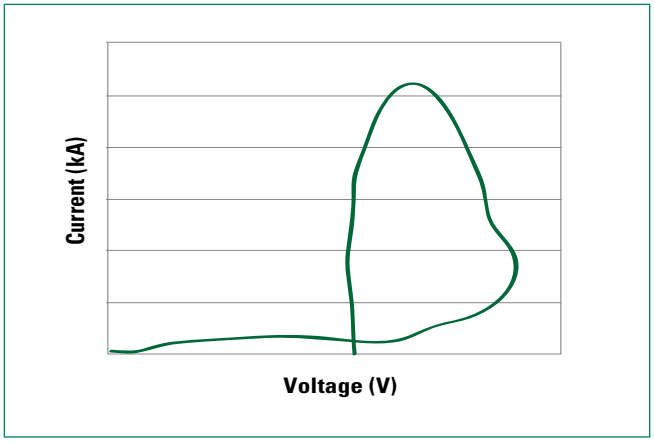


Figure 4:
Surge Response



AK3 Series
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Ratings and Characteristic Curves (T_A=25°C unless otherwise noted) (Continued)

Figure 5:
Typical Peak Pulse Power Rating Curve

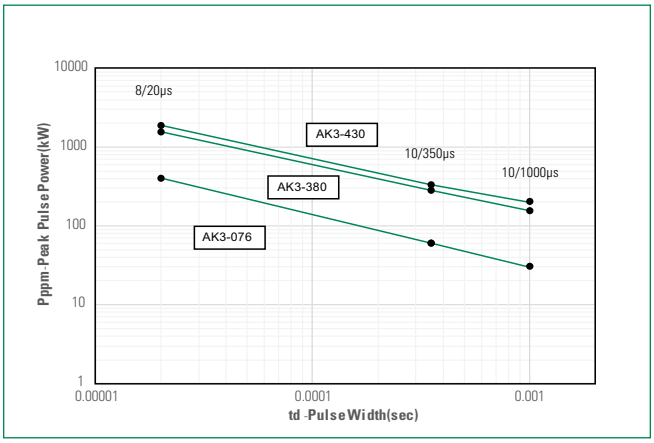


Figure 6:
Typical V_{BR} Vs Junction Temperature

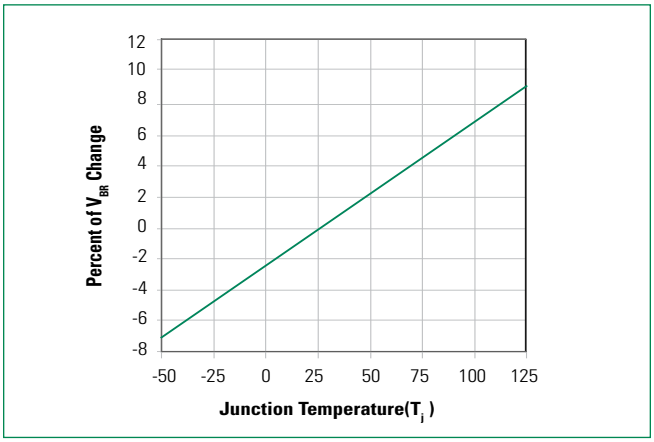


Figure 7:
Surge Response (8/20 Surge current waveform)

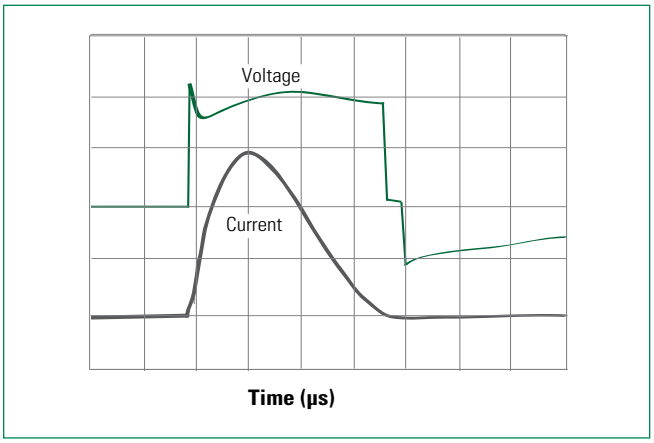
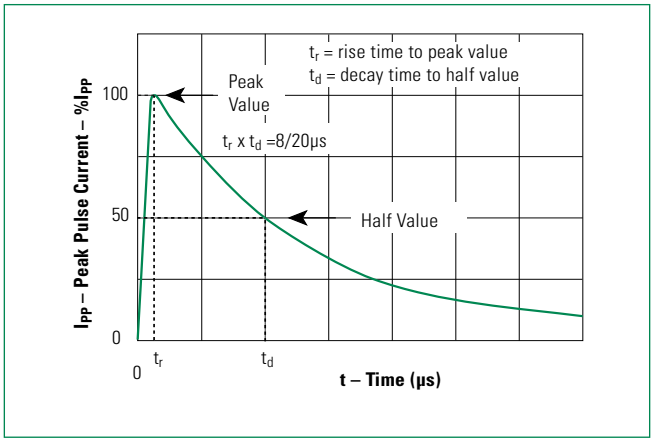


Figure 8:
Pulse Waveform



Note: 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.

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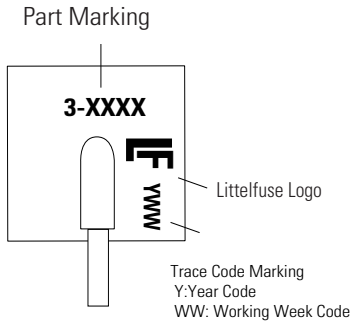
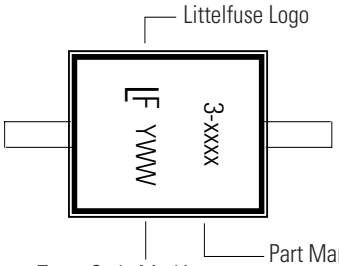
Part Marking System



Apply to P/N listed below:
AK3-015C
AK3-030C
AK3-038C
AK3-058C
AK3-066C
AK3-076C

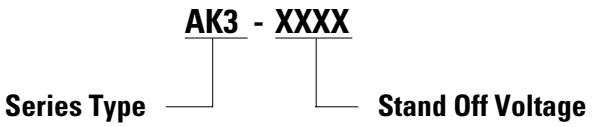
Type 1- Side View



Apply to P/N listed below:
AK3-150C
AK3-170C
AK3-190C
AK3-208C
AK3-380C
AK3-430C

Type 2 - Top View

Part Numbering System

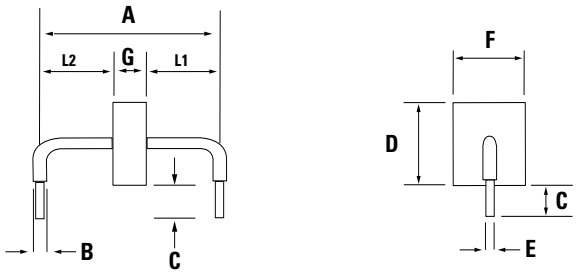


(Please Refer to Electrical Characteristics Chart)

Packing Options

Part Number	Component Package	Quantity	Packaging Option
AK3-XXXX	AK Package	56pcs/Box	Bulk
AK3-XXXX-12	AK Package	12pcs/Box	Bulk

Dimensions



Dimensions		Inches	Millimeters
A		0.951 +/- 0.040	24.15 +/- 1.00
B		0.094 +/- 0.024	2.40 +/- 0.60
C		0.236 +/- 0.039	6.00 +/- 1.00
	-208C	0.145 +/- 0.040	3.68 +/- 1.00
D		0.433 max.	11.0 max.
E		0.050 +/- 0.002	1.27 +/- 0.05
F		0.374 max.	9.50 max.
G	-015C	0.093 +/- 0.039	2.36 +/- 1.00
	-030C/-038C/-066C	0.130 +/- 0.047	3.30 +/- 1.20
	-058C/-076C	0.168 +/- 0.047	4.27 +/- 1.20
	-150C	0.383 +/- 0.047	9.72 +/- 1.20
	-170C/-190C	0.420 +/- 0.047	10.67 +/- 1.20
	-208C	0.358 +/- 0.047	9.10 +/- 1.20
	-380C	0.547 +/- 0.047	13.90 +/- 1.20
	-430C	0.583 +/- 0.047	14.80 +/- 1.20
L1	-208C	0.296 +/- 0.047	7.52 +/- 1.20
		L1= L2 tolerance +/- 0.047 inch (+/- 1.20 mm)	
L2	-208C	= A - (G+L1) tolerance +/- 0.047 inch (+/- 1.20 mm)	
		L1= L2 tolerance +/- 0.047 inch (+/- 1.20 mm)	