

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

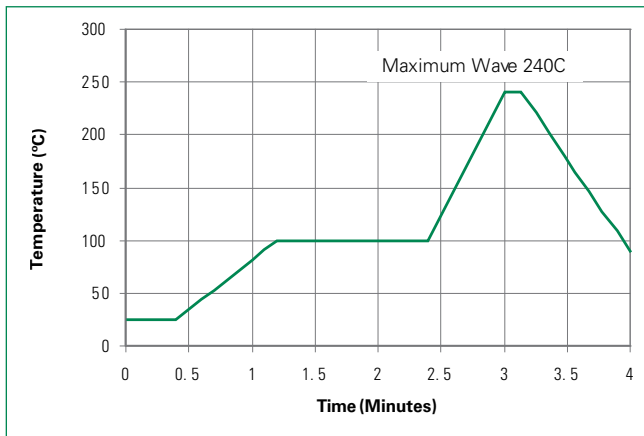
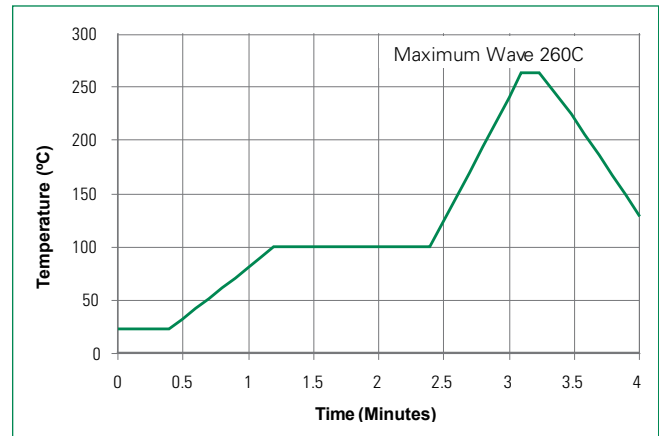


Figure 2:
Lead-free Profile



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

Figure 3:
Peak Power Derating

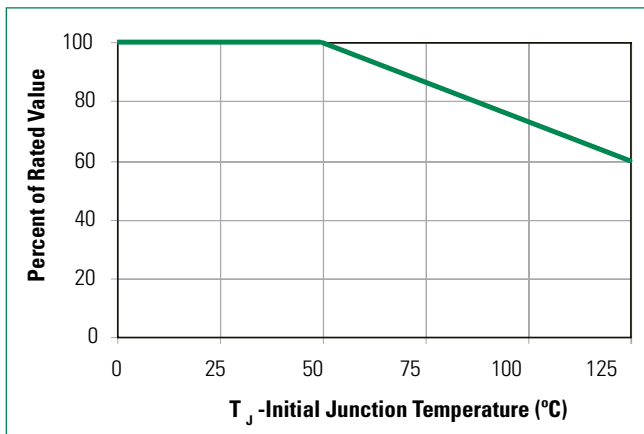
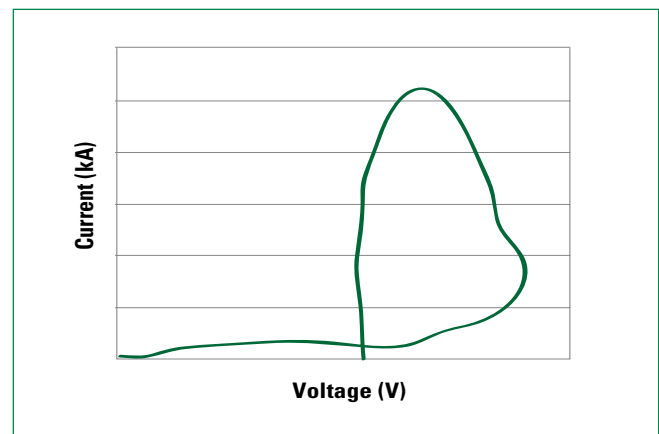


Figure 4:
Surge Response



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

Figure 5:
Typical Peak Pulse Power Rating Curve

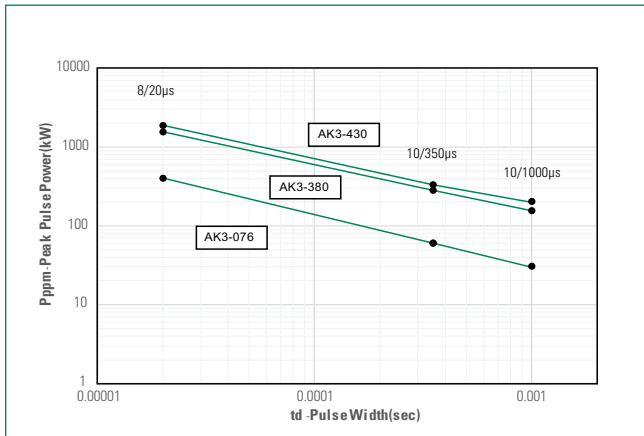


Figure 6:
Typical V_{BR} Vs Junction Temperature

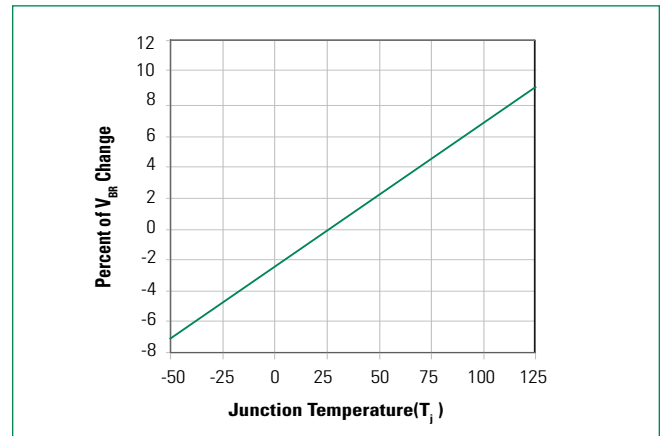


Figure 7:
Surge Response (8/20 Surge current waveform)

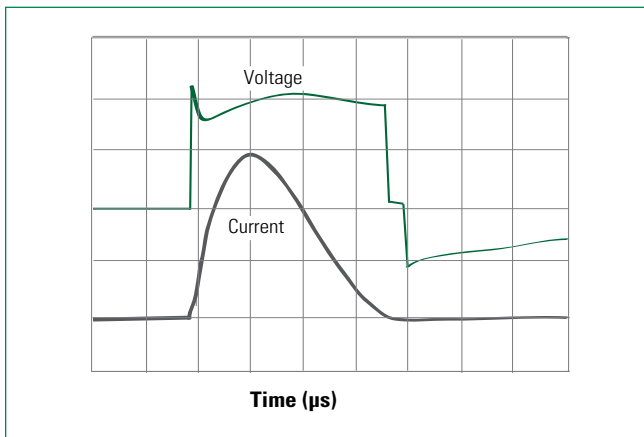
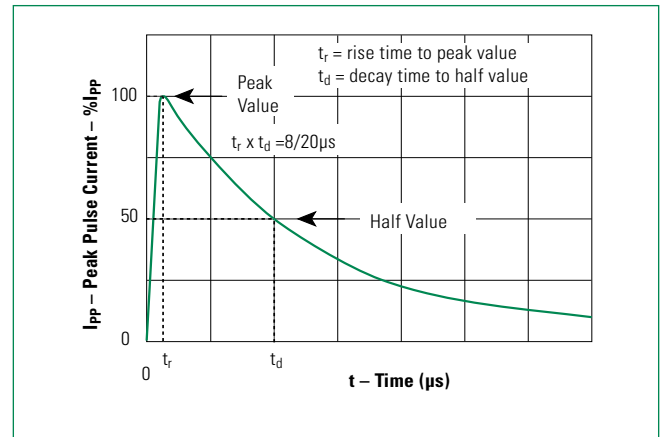


Figure 8:
Pulse Waveform

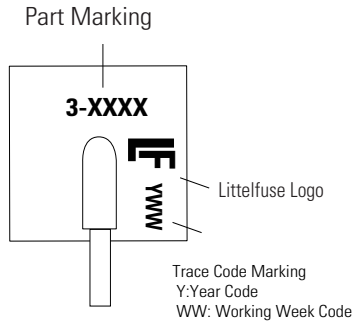


Note: The power dissipation causes a change in avalanche voltage during the surge and the avalanche voltage eventually returns to the original value when the transient has passed.

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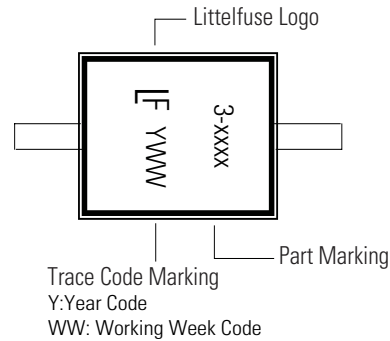
Part Marking System



Apply to P/N listed below:

AK3-015C
AK3-030C
AK3-038C
AK3-058C
AK3-066C
AK3-076C

Type 1- Side View

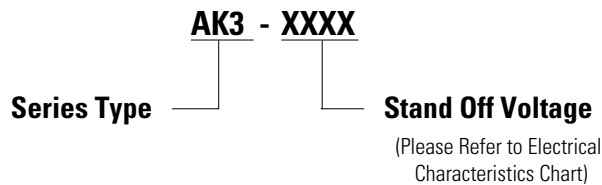


Apply to P/N listed below:

AK3-150C
AK3-170C
AK3-190C
AK3-208C
AK3-380C
AK3-430C

Type 2 - Top View

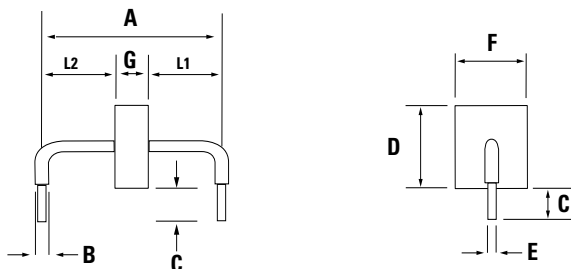
Part Numbering System



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
C	-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
	-030C/-038C/-066C	0.130 +/- 0.047
	-058C/-076C	0.168 +/- 0.047
	-150C	0.383 +/- 0.047
	-170C/-190C	0.420 +/- 0.047
	-208C	0.358 +/- 0.047
	-380C	0.547 +/- 0.047
L1	-430C	0.583 +/- 0.047
	-208C	0.296 +/- 0.047
L2	-208C	L1 = L2 tolerance +/- 0.047 inch (+/- 1.20 mm) = A - (G+L1) tolerance +/- 0.047 inch (+/- 1.20 mm)
	-208C	L1 = L2 tolerance +/- 0.047 inch (+/- 1.20 mm)

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