TVS Diodes Datasheet

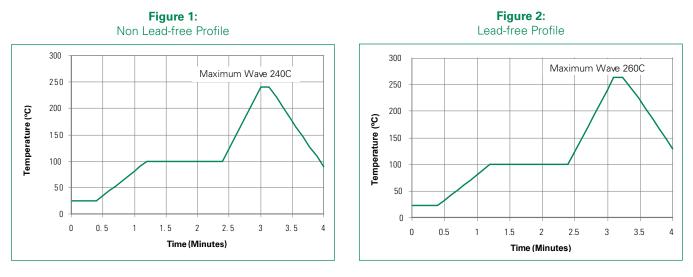
Physical Specifications

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

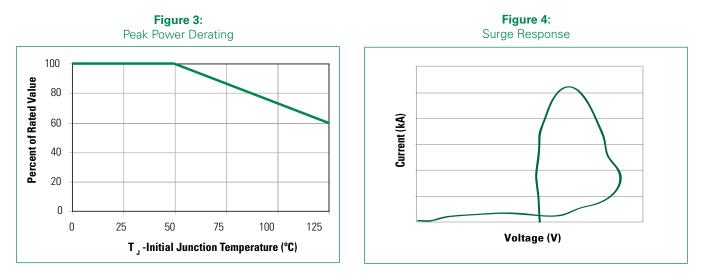
Flow/Wave Soldering (Solder Dipping)

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

Wave Solder Profile



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



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

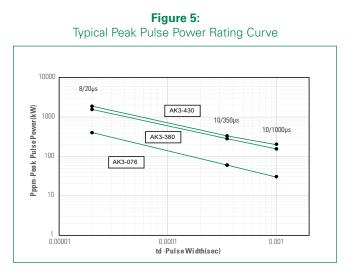


Figure 6: Typical V_{BR} Vs Junction Temperature

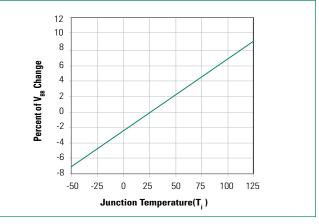
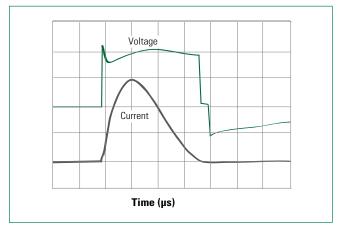
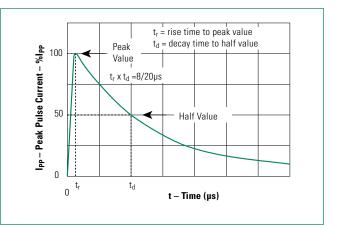


Figure 7: Surge Response (8/20 Surge current waveform)



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.

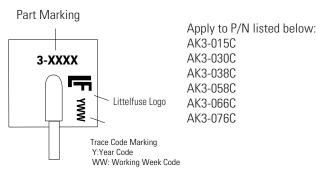
Figure 8: Pulse Waveform

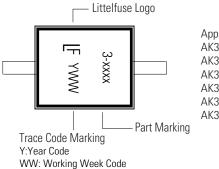




TVS Diodes Datasheet

Part Marking System





Apply to P/N listed below: AK3-150C AK3-170C AK3-190C AK3-208C AK3-280C AK3-380C AK3-430C

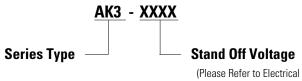
Type 2 - Top View

Packing Options

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

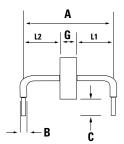
Type 1- Side View

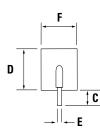
Part Numbering System



Characteristics Chart)

Dimensions





Dimensions		Inches	Millimeters	
Α		0.951 +/- 0.040	24.15 +/- 1.00	
В		0.094 +/- 0.024	2.40 +/- 0.60	
С		0.236 +/- 0.039	6.00 +/- 1.00	
	-208C	0.145 +/- 0.040	3.68 +/- 1.00	
D		0.433 max.	11.0 max.	
Е		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	
	-208C	0.296 +/- 0.047	7.52 +/- 1.20	
L1		L1= L2 tolerance +/- 0.047 inch (+/- 1.20 mm)		
L2	-7080	= A - (G+L1) tolerance +/- 0.047 inch (+/- 1.20 mm)		
		L1= L2 tolerance +/- 0.047 inch (+/- 1.20 mm)		

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