

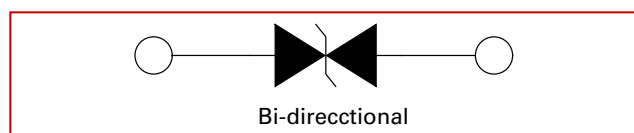
Features

RoHS
Compliant

- Very low clamping voltage
- Ultra compact: less than one-tenth the size of traditional discrete solutions
- Sharp breakdown voltage
- Low slope resistance
- Bi-directional
- Foldbak technology for superior clamping factor
- Symmetric in leads width for easier soldering during assembly.
- IEC 61000-4-2 ESD 15kV(Air), 8kV (Contact)
- ESD protection of data lines in accordance with IEC 61000-4-2
- EFT protection of data lines in accordance with IEC 61000-4-4 -
- Halogen-free
- RoHS compliant
- Glass passivated junction
- Pb-free E4 means 2nd level interconnect is Pb-free and the terminal finish material is silver



Function Diagram



Maximum Ratings and Thermal Characteristics (T _A =25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Operating Temperature Range	T _J	-55 to 150	°C
Storage Temperature Range	T _{STG}	-55 to 150	°C
Current Rating ¹	I _{PP}	15	kA

AGENCY	AGENCY FILE NUMBER
	Pending

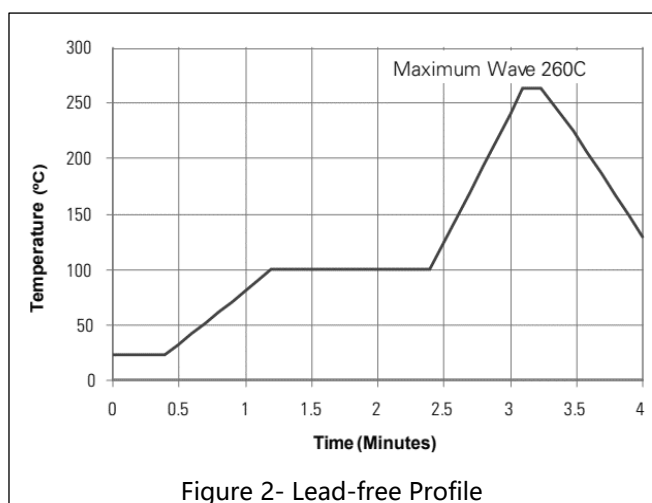
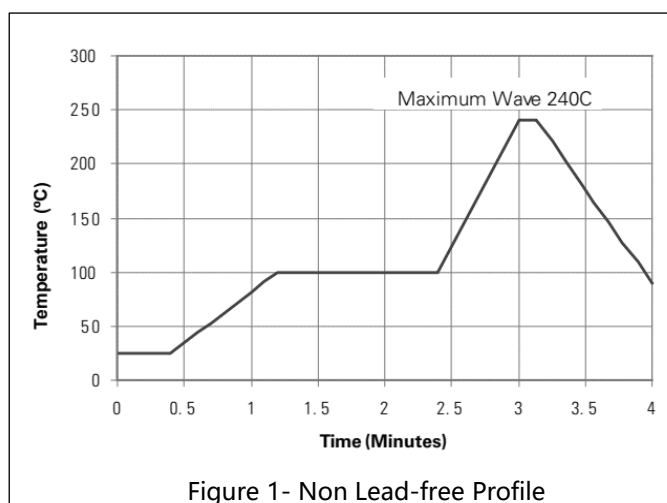
Notes:

1. Rated IPP measured with 8/20μs pulse as defined in IEC 61000-4-5 2nd edition

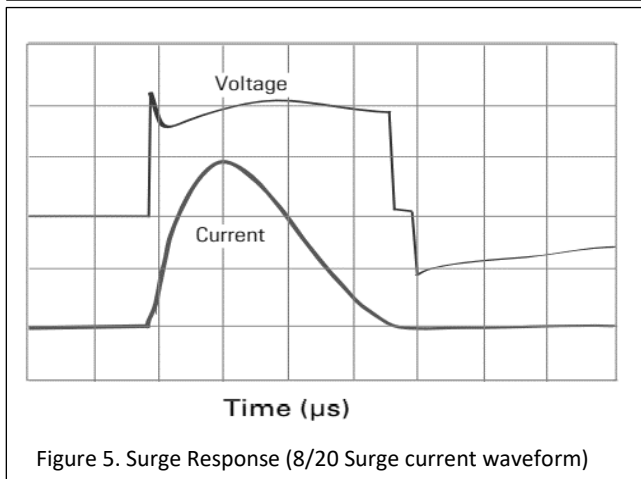
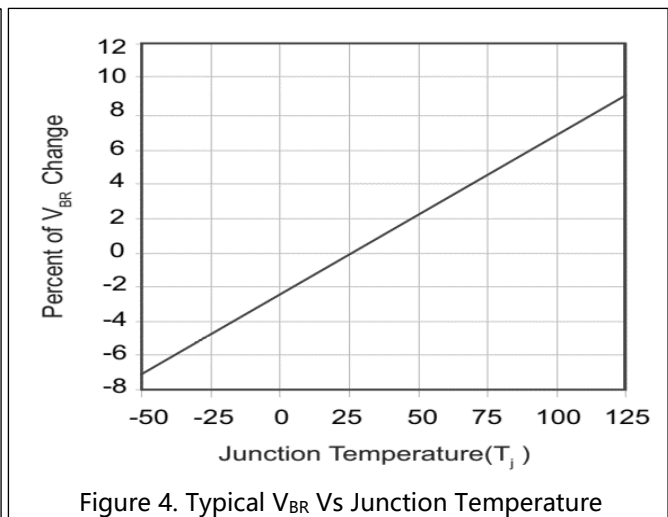
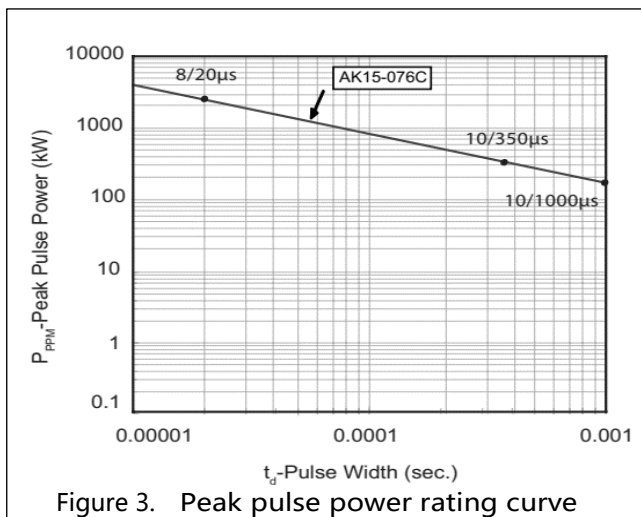
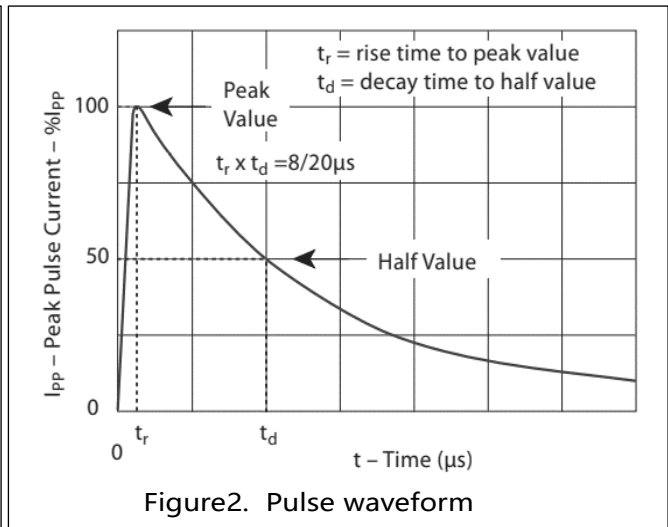
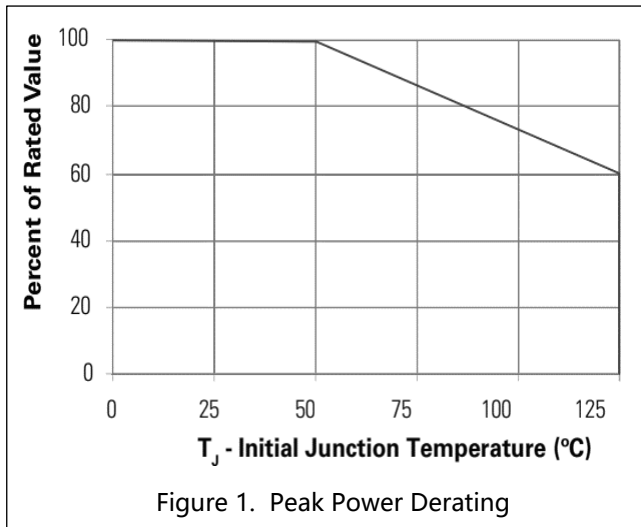
Characteristics (T = 25°C unless otherwise noted)

Part Numbers	Part Marking	Standoff Voltage (V _{SO}) Volts	Max. Reverse Leakage (I _R) @ V _{SO} μA	Typical I _R @ 85°C (μA)	Reverse Breakdown Voltage (V _{BR}) @ I _T		Test Current I _T (mA)	Max. Clamping Voltage V _{CL} @ I _{PP} Peak Pulse Current (I _{PP}) (Note 1)		Max. Temp Coefficient OF V _{BR} (%/°C)	Max. Capacitance 0 Bias 10kHz (nF)	Agency Approval 
					Min Volts	Max Volts		V _{CL} Volts	I _{PP} Amps			
AK15 - 058C	15-058C	58	10	15	64	70	10	110	15000	0.1	16.0	
AK15 - 066C	15-066C	66	10	15	72	80	10	120	15000	0.1	12.0	
AK15 - 076C	15-076C	76	10	15	85	95	10	150	15000	0.1	12.0	
AK15 - 190C	15-190C	190	10	15	200	245	10	290	15000	0.1	5.0	

Wave Solder Profile



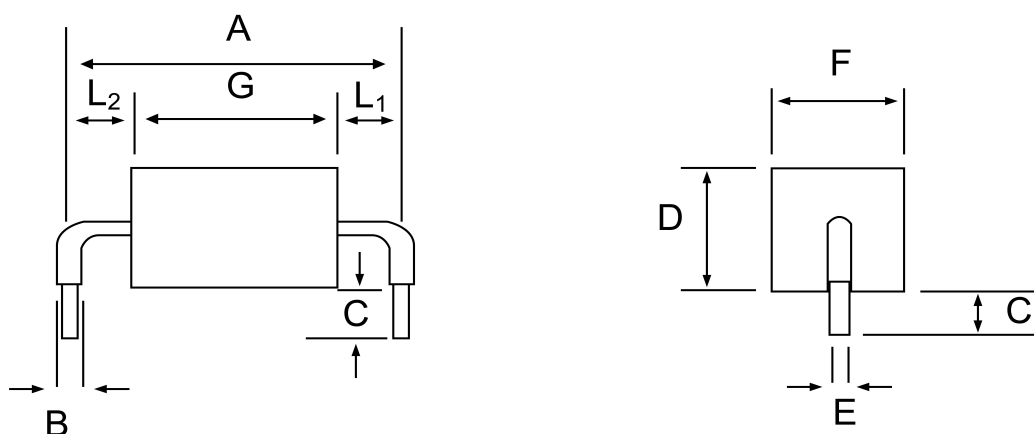
Ratings and Characteristic Curves ($T = 25^{\circ}\text{C}$ unless otherwise noted)



Note:

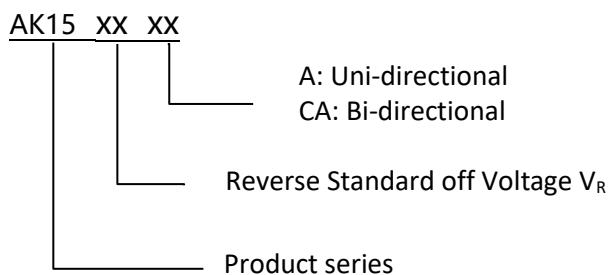
The power dissipation causes a change in avalanche voltage during the surge and the avalanche voltage eventually returns to the original value when the transient has passed.

Dimensions

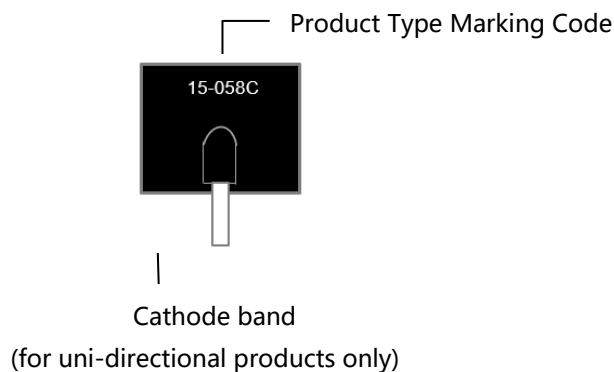


Symbol		Dimensions	
		Inches	Millimeters
A		0.951 +/- 0.039	24.15 +/- 1.00
B		0.094 +/- 0.024	2.4 +/- 0.60
C		0.238 +/- 0.039	6.00 +/- 1.00
D		0.630 +/- 0.055	16.00 +/- 1.40
E		0.050 +/- 0.002	1.27 +/- 0.05
F		0.571 +/- 0.055	14.50 +/- 1.40
G	030C/042C	0.283 +/- 0.047	7.20 +/- 1.20
	058C/066C/076C	0.335 +/- 0.047	8.50 +/- 1.20
L1/L2		L1=L2 tolerance +/- 0.047 inch (+/- 1.2mm)	

Part Numbering



Part Marking



Packing

Part number	Package name	Small packing quantity	Packing method
AK15XXXX	AK Package	56	Bulk

Revision history of Specification

Version	Change Items	Effective Date
1.0	Initial Release	20-Aug-2023