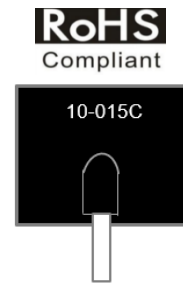
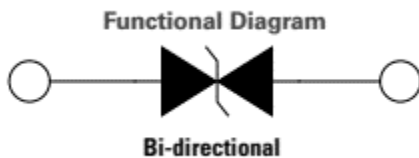


**Features**

- Very low clamping voltage
- Ultra compact: less than onetenth 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 <sub>A</sub> =25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Operating Temperature Range	T <sub>J</sub>	-55 to 150	°C
Storage Temperature Range	T <sub>STG</sub>	-55 to 150	°C
Current Rating <sup>1</sup>	I <sub>PP</sub>	10	kA

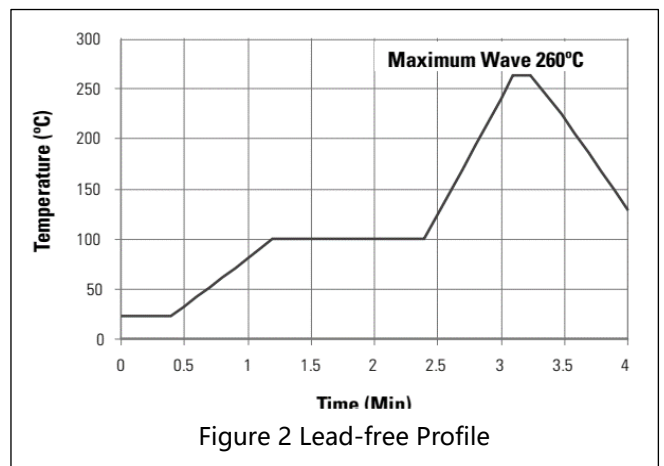
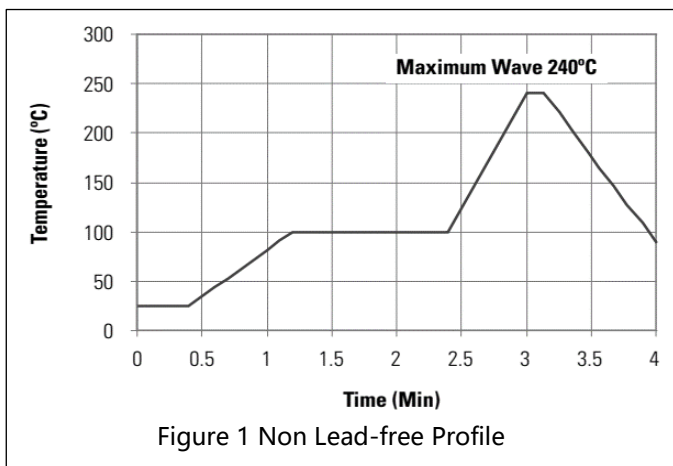
AGENCY	AGENCY FILE NUMBER
	Pending

**Notes:**  
1. Rated IPP measured with 8/20µS pulse.

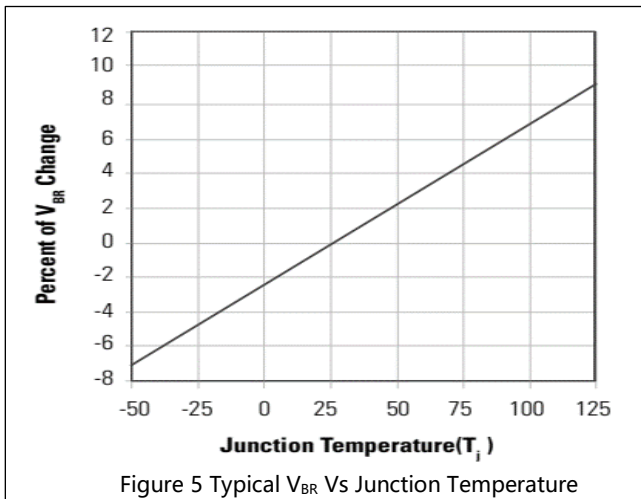
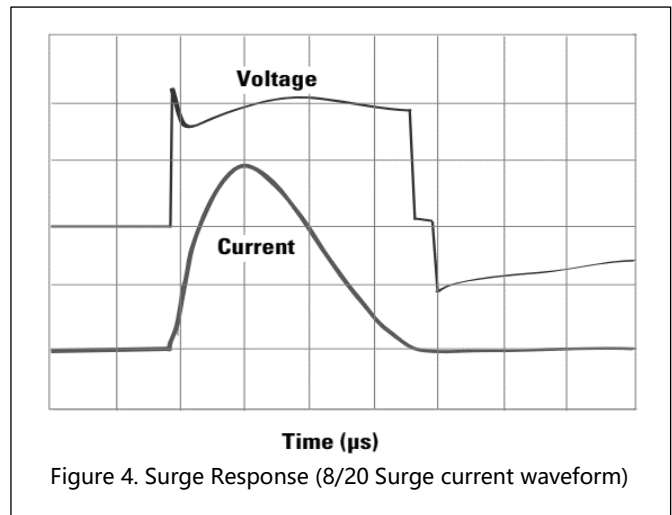
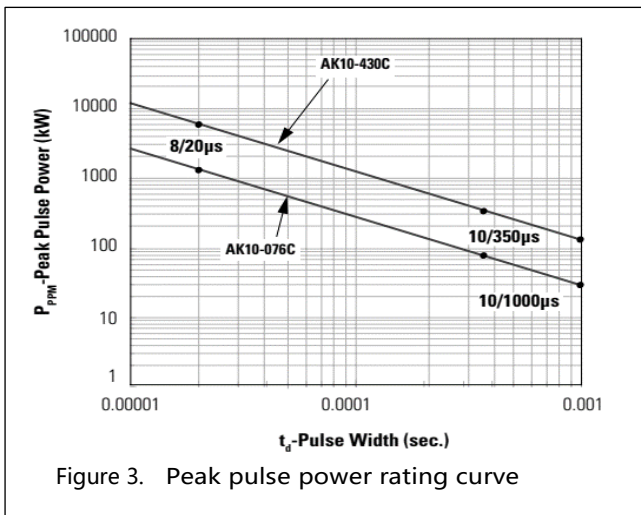
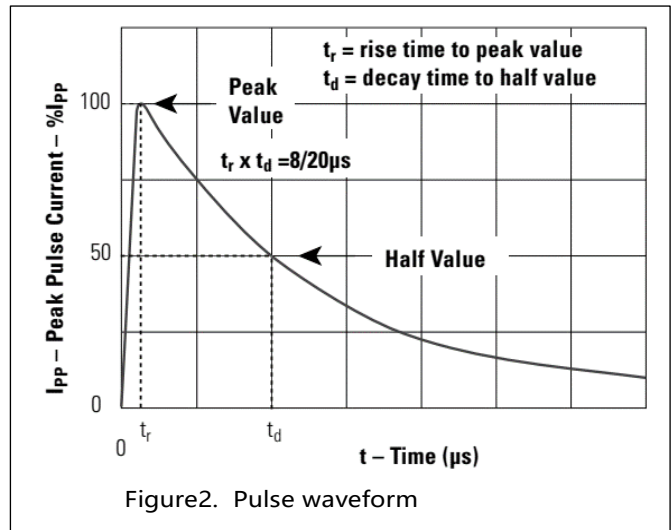
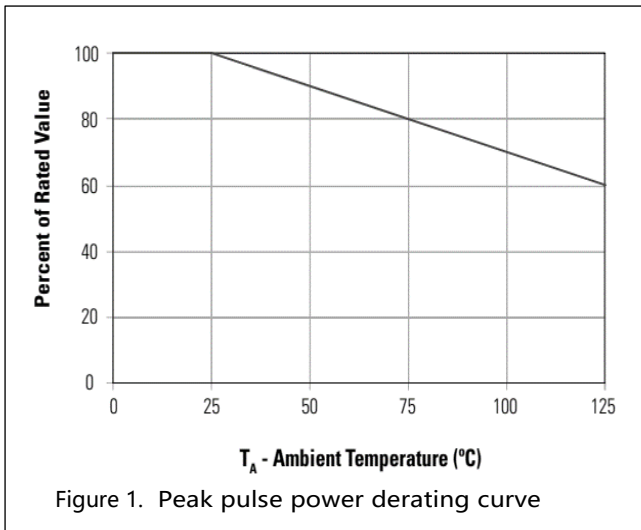
**Characteristics (T =25°C unless otherwise noted)**

Part Numbers	Part Marking	Standoff Voltage (V <sub>SO</sub> ) Volts	Max. Reverse Leakage (I <sub>R</sub> ) @V <sub>SO</sub> μA	Typical I <sub>R</sub> @ 85°C (μA)	Reverse Breakdown Voltage (V <sub>BR</sub> ) @ I <sub>T</sub>		Test Current I <sub>T</sub> (mA)	Max. Clamping Voltage V <sub>CL</sub> @ I <sub>PP</sub> Peak Pulse Current (I <sub>PP</sub> ) (Note 1)		Max. Temp Coefficient OF V <sub>BR</sub> (%/°C)	Max. Capacitance 0 Bias 10kHz (nF)	Agency Approval 
					Min Volts	Max Volts		V <sub>CL</sub> Volts	I <sub>PP</sub> Amps			
SCAK10 - 015C	10-015C	15	10	15	16	19	10	28	10000	0.1	40.0	
SCAK10 - 030C	10-030C	30	10	15	32	37	10	58	10000	0.1	20.0	
SCAK10 - 033C	10-033C	33	10	15	36	40	10	53	10000	0.1	20.0	
SCAK10 - 058C	10-058C	58	10	15	64	70	10	110	10000	0.1	10.0	
SCAK10 - 066C	10-066C	66	10	15	72	80	10	120	10000	0.1	10.0	
SCAK10 - 076C	10-076C	76	10	15	85	95	10	140	10000	0.1	6.5	
SCAK10 - 170C	10-170C	170	10	15	180	220	10	260	10000	0.1	4.0	
SCAK10 - 190C	10-190C	190	10	15	200	245	10	290	10000	0.1	3.0	
SCAK10 - 220C	10-220C	220	10	15	230	270	10	330	10000	0.1	2.5	
SCAK10 - 240C	10-240C	240	10	15	250	285	10	340	10000	0.1	2.2	
SCAK10 - 270C	10-270C	270	10	15	282	315	10	401	10000	0.1	2.3	
SCAK10 - 380C	10-380C	380	10	15	401	443	10	520	10000	0.1	2.0	
SCAK10 - 430C	10-430C	430	10	15	440	490	10	625	10000	0.1	1.4	
SCAK10 - 530C	10-530C	530	10	15	560	619	10	750	10000	0.1	1.0	

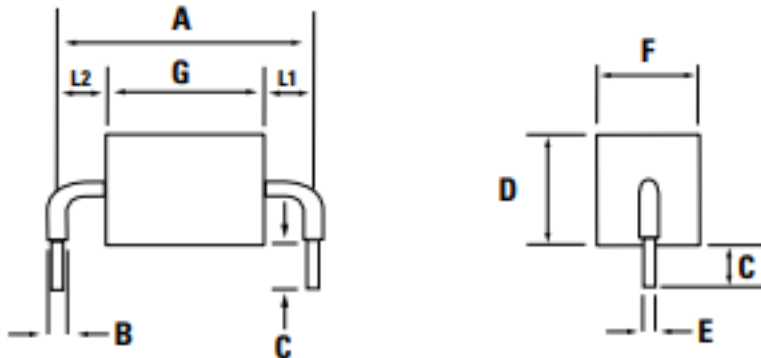
**Wave Solder Profile**



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

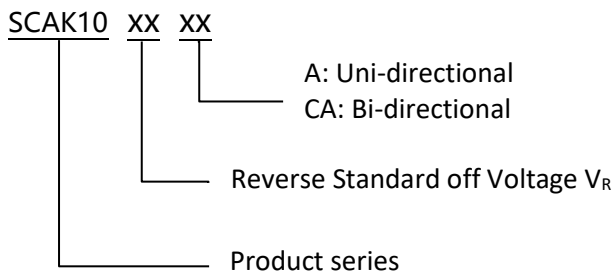


Dimensions

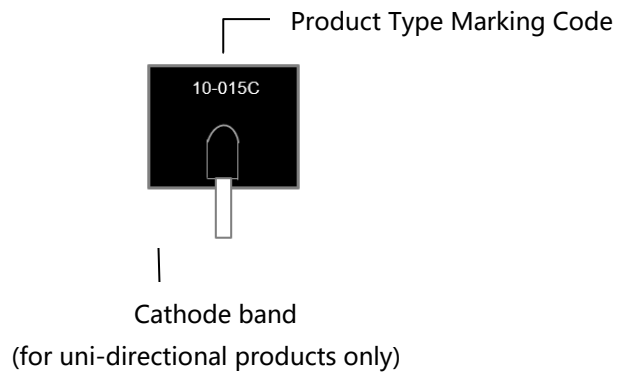


Symbol		Dimensions	
		Inches	Millimeters
A		0.951 +/- 0.039	24.15 +/- 1.00
A-350C		1.370 +/- 0.079	34.70 +/- 2.00
B		0.094 +/- 0.024	2.4 +/- 0.60
C		0.236 +/- 0.039	6.00 +/- 1.00
D		0.570 Max	14.48 Max
E		0.050 +/- 0.002	1.27 +/- 0.050
F		0.500 Max	12.70 Max
G	015C / 025C	0.157 +/- 0.047	4.00 +/- 1.20
	030C / 042C	0.189 +/- 0.047	4.80 +/- 1.20
	058C / 066C/ 076C	0.217 +/- 0.047	5.50 +/- 1.20
	100C	0.283 +/- 0.047	7.20 +/- 1.20
	133C	0.319 +/- 0.047	8.10 +/- 1.20
	170C / 190C	0.374 +/- 0.047	9.50 +/- 1.20
	200C	0.417 +/- 0.047	10.60 +/- 1.20
	240C	0.457 +/- 0.047	11.60 +/- 1.20
	275C / 300C	0.563 +/- 0.047	14.30 +/- 1.20
	380C/430C	0.610 +/- 0.047	15.50 +/- 1.20
L1 / L2		L1=L2 tolerance +/- 0.047 inch (+/- 1.2 mm)	

### Part Numbering



### Part Marking



### Packing

Part number	Package name	Small packing quantity	Packing method
SCAK10XXXX	AK Package	56	Bulk

### Revision history of Specification

Version	Change Items	Effective Date
1.0	Initial Release	15-Aug-2021

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