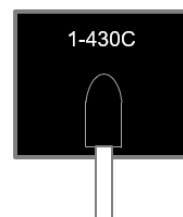


Features

- Very low clamping voltage
- Ultra compact: less than one-tenth the size of traditional discrete solutions
- Sharp breakdown voltage
- Low slope resistance
- Bi-directional
- 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


RoHS
Compliant



Function Diagram




Maximum Ratings and Thermal Characteristics (T _A =25°C unless otherwise noted)			
Parameter	Symbol	Value	Unit
Operating Storage Temperature Range	TSTG	-55 to 150	°C
Operating Junction Temperature Range	TJ	-55 to 125	°C
Current Rating ¹	I _{PP}	1	kA

AGENCY	AGENCY FILE NUMBER
	Pending

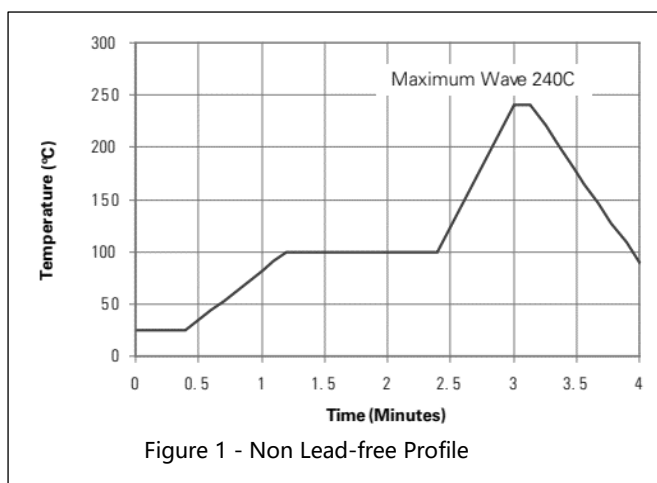
Notes:

1. Rated I_{PP} measured with 8/20μs pulse.

Characteristics (T = 25°C unless otherwise noted)

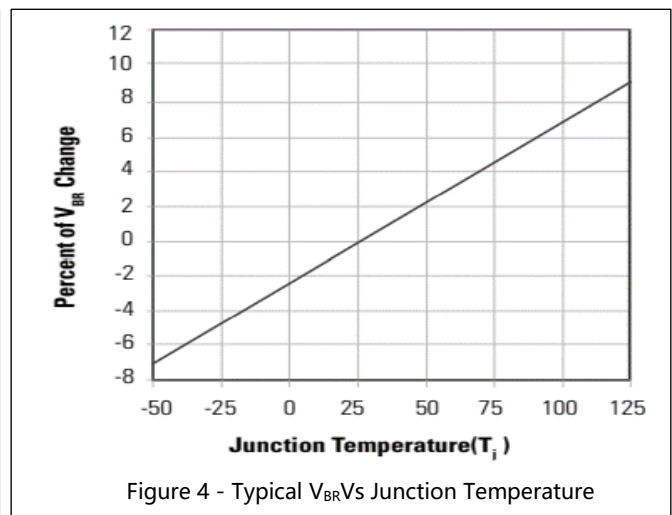
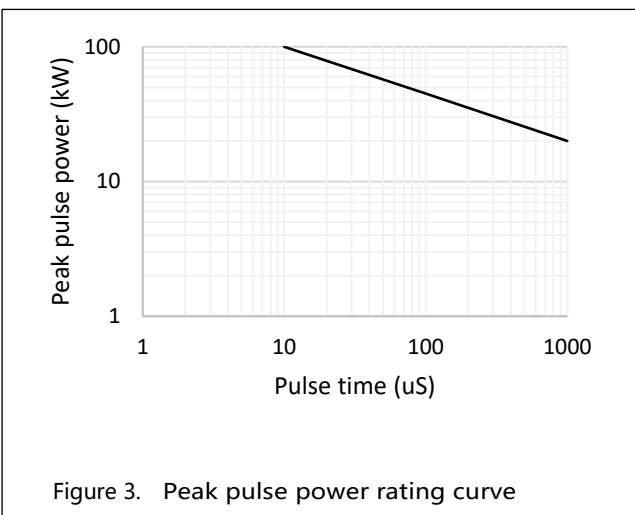
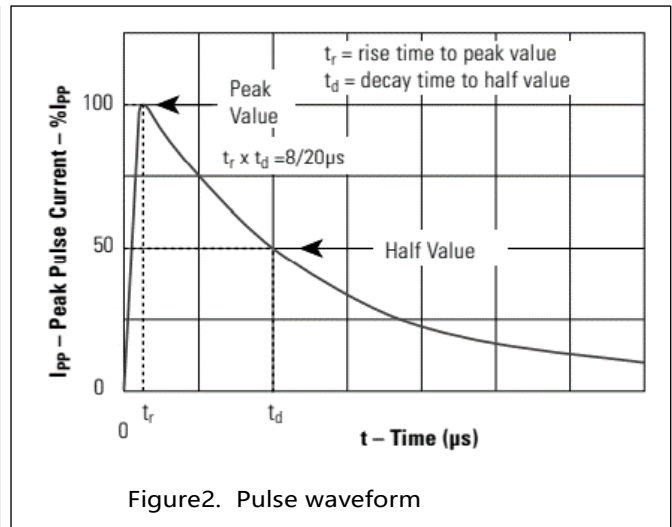
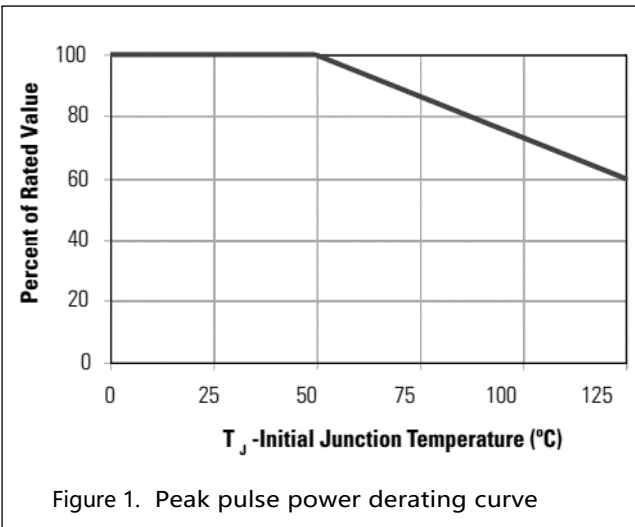
Part Numbers	Part Marking	Standoff Voltage (V _{SO}) Volts	Max. Reverse Leakage (I _R) @ V _{SO} μ A	Typical I _R @ 85°C (μ A)	Reverse Breakdown Voltage (V _{BR}) @ I _T		Test Current I _T (mA)	Max. Clamping Voltage V _{CL} @ I _{PP} Peak Pulse Current (I _{PP}) (Note 1)		Max. Temp Coefficient OF V _{BR} (%/°C)	Max. Capacitance 0 Bias 10kHz (nF)	Agency Approval 
					Min Volts	Max Volts		V _{CL} Volts	I _{PP} Amps			
SCAK1 - 076C	1-076C	76	10	15	85	95	10	140	1000	0.1	8.5	
SCAK1 - 380C	1-380C	380	10	15	401	443	10	570	1000	0.1	2.0	
SCAK1 - 430C	1-430C	430	10	15	440	490	10	625	1000	0.1	2.0	

Wave Solder Profile

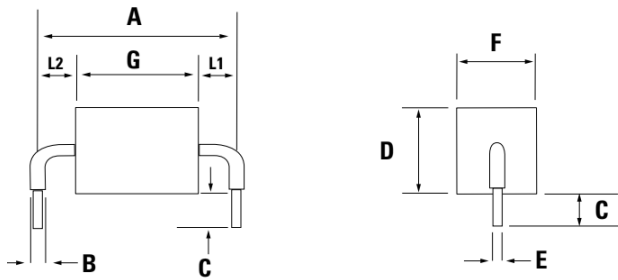




Ratings and Characteristic Curves (T = 25°C unless otherwise noted)

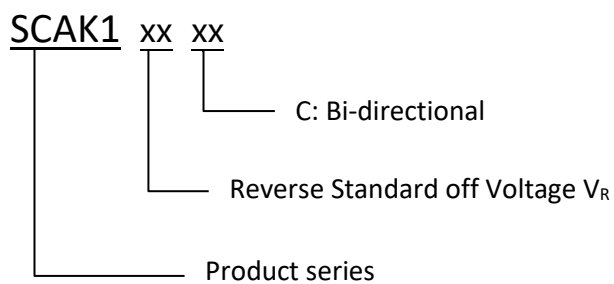


Dimensions

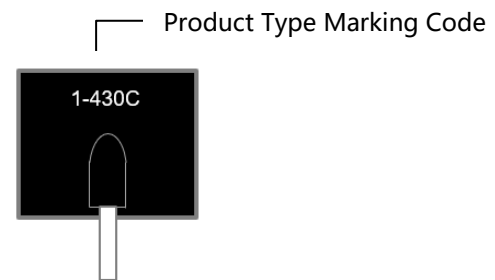


Dimensions	Inches	Millimeters
A	0.950 +/- 0.04	24.15 +/- 1.00
B	0.095 +/- 0.024	2.4 +/- 0.60
C	0.236 +/- 0.04	6.00 +/- 1.00
D	0.570 max.	14.48 max.
E	0.050 +/- 0.002	1.270 +/- 0.05
F	0.500 max.	12.70 max.
G - 430A	0.167 +/- 0.04	4.23 +/- 1.00
	0.200 +/- 0.04	5.08 +/- 1.00
L1/L2	L1= L2 tolerance +/- 0.04 inch (1.0 mm)	

Part Numbering



Part Marking



Packing

Part number	Package name	Small packing quantity	Packing method
SCAK1XXXX	AK Package	56	Bulk

Revision history of Specification

Version	Change Items	Effective Date
1.0	Initial Release	25-Aug-2022