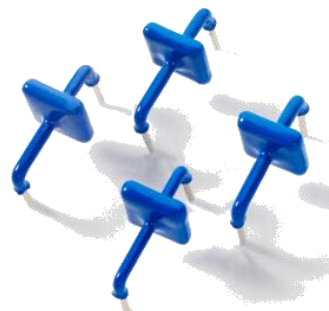


Description

The HC-10 Series of high current transient suppressors have been specially designed for A.C. line protection and high power DC bus clamping applications. They provide a clamping voltage lower than the avalanche voltage. Therefore, any voltage rise due to increased current conduction is contained to a minimum, providing the best possible protection level. They can also be connected in series and/or parallel to create very high capacity protection solutions.



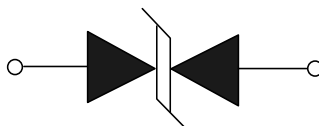
Features

- Bi-directional
- Very low clamping voltage
- Sharp breakdown voltage
- Low slope resistance
- Foldback technology for superior clamping factor
- RoHS compliant

Absolute Maximum Ratings (T_A=25°C)

Parameter	Symbol	Value	Units
Peak Current Rating per 8/20μs IEC 61000-4-5	I _{PP}	10	KA
Operating Junction Temperature Range	T _J	-55 to + 150	°C
Storage Temperature Range	T _{STG}	-55 to + 150	°C

Pin Configuration



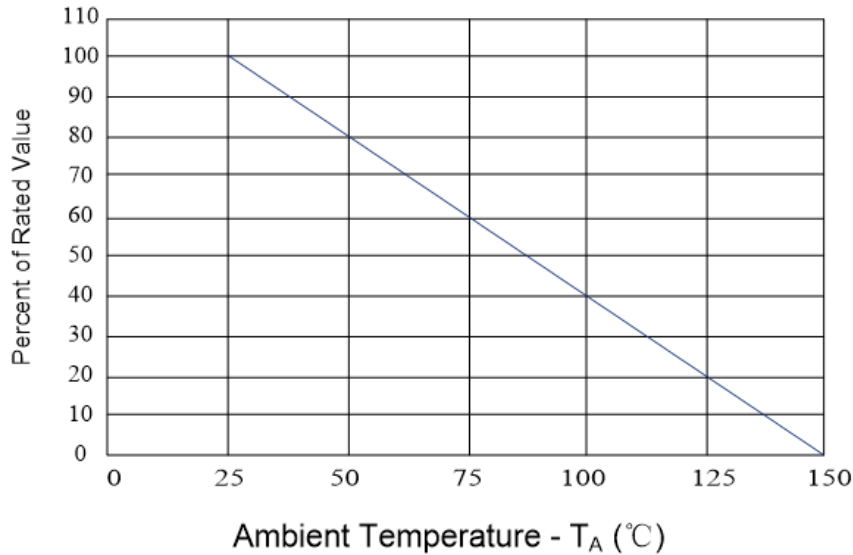
Electrical Characteristics (T_A=25°C)

Part Number	Reverse Stand off Voltage V _{RWM} (Volts)	Breakdown Voltage V _{BR} (Volts)@I _T		Test Current I _T (mA)	Maximum Clamping Voltage V _c @I _{PP} (Volts)	Peak Pulse Current I _{pp} (Amps)	Maximum Reverse Leakage I _R @V _{RWM} (µA)
		MIN	MAX				
WS030K10	30	32	37	10	80	10000	20
WS058K10	58	64	70	10	110	10000	20
WS066K10	66	72	80	10	120	10000	20
WS076K10	76	85	95	10	140	10000	20
WS170K10	170	180	220	10	260	10000	20
WS190K10	190	200	245	10	290	10000	20
WS240K10	240	250	285	10	340	10000	20
WS380K10	380	401	443	10	520	10000	20
WS430K10	430	440	490	10	625	10000	20

Note: Using 8/20µs wave shapes as defined in IEC 61000-4-5.

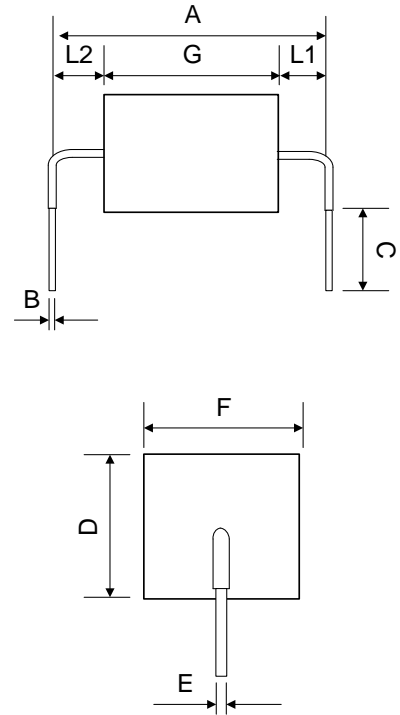
Typical Characteristics

Peak Pulse Derating

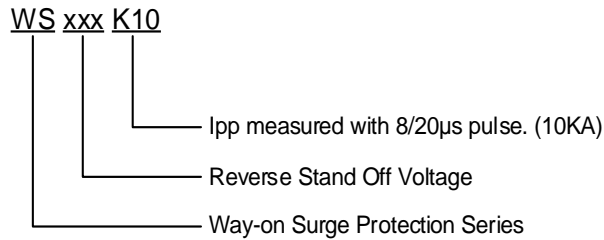


Dimensions

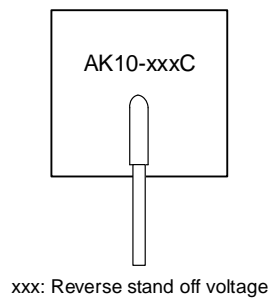
Ref. (mm)	Millimeters
A	24.15 ± 1.00
B	2.40 ± 0.60
C	6.00 ± 1.00
D	14.5max
E	1.27 ± 0.05
F	14.0max
G-030	6.0max
G-058/066/076	8.0max
G-170/190	12.0max
G-240	16.0max
G-380/430	20.0max
L1=L2 tolerance ± 1.20mm	



Part Number System



Part Marking System



Package Information

Part Number	Description	Quantity (pcs)
WSxxxK10	Box	84

Contact Information

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For additional information, please contact your local Sales Representative.

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Specifications are subject to change without notice.

The device characteristics and parameters in this data sheet can and do vary in different applications and actual device performance may vary over time.

Users should verify actual device performance in their specific applications.