

DATA SHEET

TRANSIENT VOLTAGE SUPPRESSORS AC/DC POWER SUPPLY

HF-C series

RoHS compliant & Halogen free

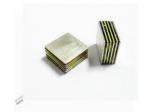




Transient Voltage Suppressors (TVS) Data Sheet

Features

- High current transient suppressor
- Excellent clamping capability
- Glass passivated junction
- Bi-directional.
- Low slope resistance.
- Hazardous Substances Free.
- RoHS compliant

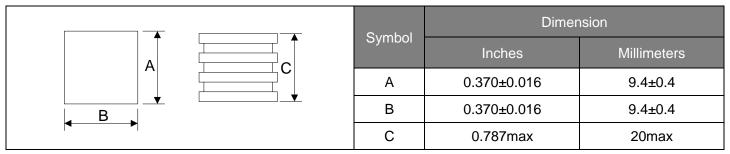


Maximum Ratings and Characteristics

Ratings at 25°C ambient temperature unless otherwise specified.

Rating	Symbol	Value		Units
		HFA-C	3	KA
Current Rating	I _{PP}	HFB-C	6	
		HFC-C	C-C 10	
Operating junction and Storage Temperature Range.	T_{J} , T_{STG}	-40 to +125		${\mathbb C}$

Dimensions



Note: Drawing here are for illustration only, actual assembly depends on specific part number.



Electrical Characteristics (T_A=25℃)

	Reverse Stand-Off Voltage		Breakdown Voltage	Test Current	Current Rating	Maximum Clamping Voltage	Reverse Leakage
Part Number	V _{AC} (V)	V _{DC} (V)	V _{BR} (V) MIN.@I _T	I _⊤ (mA)	Rated I _{PP} measured with 8/20µs	V _C (V) @I _{PP}	I _R (μΑ) @V _{DC}
HFA-012C	8.5	12.8	14	1	3KA	80	20
HFA-015C	11	15	17	1	3KA	85	20
HFA-020C	14	20	22	1	3KA	90	20
HFA-025C	17	25	28	1	3KA	95	20
HFA-030C	21	30	33	1	3KA	100	20
HFA-042C	30	42	47	1	3KA	105	20
HFA-058C	40	58	64	1	3KA	110	20
HFA-066C	45	66	70	1	3KA	120	20
HFA-076C	54	76	85	1	3KA	140	20
HFA-100C	72	100	110	1	3KA	165	20
HFA-133C	100	133	147	1	3KA	220	20
HFA-170C	130	170	180	1	3KA	260	20
HFA-190C	145	190	200	1	3KA	290	20
HFA-200C	150	200	222	1	3KA	330	20
HFA-240C	180	240	250	1	3KA	340	20
HFA-275C	210	275	300	1	3KA	435	20
HFA-300C	230	300	330	1	3KA	470	20
HFA-380C	275	380	401	1	3KA	520	20
HFA-430C	310	430	440	1	3KA	625	20
HFA-460C	330	460	500	1	3KA	770	20
HFA-500C	385	500	558	1	3KA	868	20
HFB-012C	8.5	12.8	14	1	6KA	80	20
HFB-015C	11	15	17	1	6KA	85	20
HFB-020C	14	20	22	1	6KA	90	20
HFB-025C	17	25	28	1	6KA	95	20
HFB-030C	21	30	33	1	6KA	100	20
HFB-042C	30	42	47	1	6KA	105	20
HFB-058C	40	58	64	1	6KA	110	20
HFB-066C	45	66	70	1	6KA	120	20
HFB-076C	54	76	85	1	6KA	140	20
HFB-100C	72	100	110	1	6KA	165	20
HFB-133C	100	133	147	1	6KA	220	20

YAGEO Circuit Protection Transient Voltage Suppressors HF-C

I allowed a production of the control of the contro							
Part Number	Reverse Stand-Off Voltage		Breakdown Voltage	Test Current	Current Rating	Maximum Clamping Voltage	Reverse Leakage
	V _{AC} (V)	V _{DC} (V)	V _{BR} (V) MIN.@I _T	I _T (mA)	Rated I _{PP} measured with 8/20µs	V _C (V) @I _{PP}	I _R (µA) @V _{DC}
HFB-170C	130	170	180	1	6KA	260	20
HFB-190C	145	190	200	1	6KA	290	20
HFB-200C	150	200	222	1	6KA	330	20
HFB-240C	180	240	250	1	6KA	340	20
HFB-275C	210	275	300	1	6KA	435	20
HFB-300C	230	300	330	1	6KA	470	20
HFB-380C	275	380	401	1	6KA	520	20
HFC-012C	8.5	12.8	14	1	10KA	80	20
HFC-015C	11	15	17	1	10KA	85	20
HFC-020C	14	20	22	1	10KA	90	20
HFC-025C	17	25	28	1	10KA	95	20
HFC-030C	21	30	33	1	10KA	100	20
HFC-042C	30	42	47	1	10KA	105	20
HFC-058C	40	58	64	1	10KA	110	20
HFC-066C	45	66	70	1	10KA	120	20
HFC-076C	54	76	85	1	10KA	140	20
HFC-100C	72	100	110	1	10KA	165	20
HFC-133C	100	133	147	1	10KA	220	20
HFC-170C	130	170	180	1	10KA	260	20
HFC-190C	145	190	200	1	10KA	290	20

Notes: 1. TA=25℃ unless otherwise specified

2. Using 8/20µs wave shape pulses as defined in IEC61000-4-5

Ratings and Characteristic Curves (T_A=25℃ unless otherwise noted)

Figure 1. Power Derating Curve

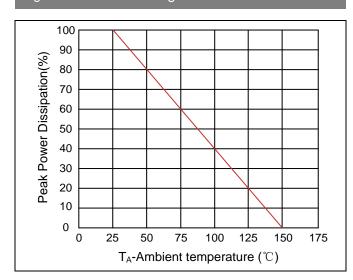
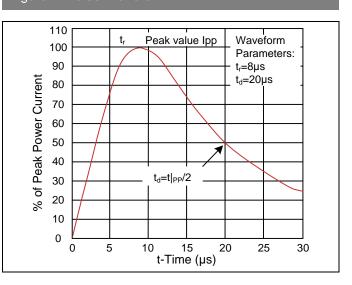
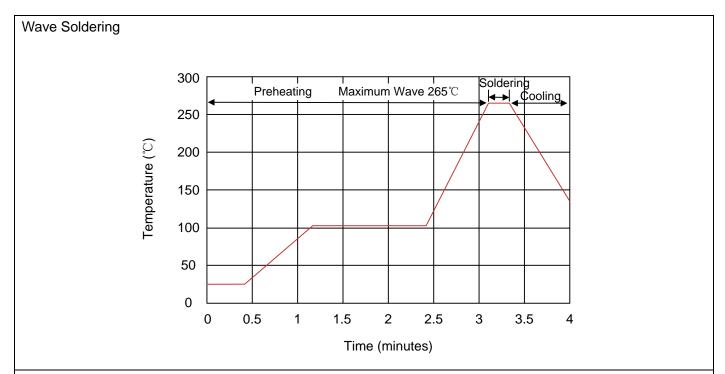


Figure 2. Pulse Waveform



Recommended Soldering Conditions

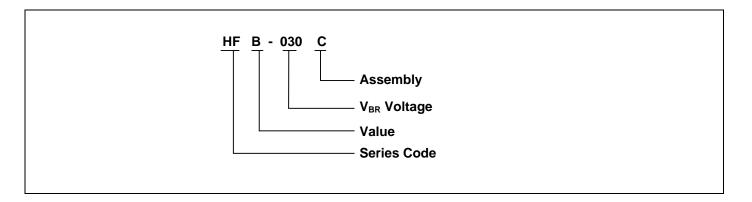


Recommended Conditions

Item	Conditions		
Peak Temperature	265 ℃		
Dipping Time	10 seconds		
Soldering	1 time		

Transient Voltage Suppressors HF-C

Part Number Code



Packaging

Hole foam packing			Symbol	Dimension (mm)
			А	235.0±1.0
		Δ	В	147.0±1.0
	A A		С	10.0±1.0
	<u>.</u>	±c	Quantity: 25PC	S
Inner Box			L	250.0
			W	65.0
			Н	165.0
			Quantity: 75PCS	



Circuit Protection Components

LEGAL DISCLAIMER

YAGEO, its distributors and agents (collectively, "YAGEO"), hereby disclaims any and all liabilities for any errors, inaccuracies or incompleteness contained in any product related information, including but not limited to product specifications, datasheets, pictures and/or graphics. YAGEO may make changes, modifications and/or improvements to product related information at any time and without notice.

YAGEO makes no representation, warranty, and/or guarantee about the fitness of its products for any particular purpose or the continuing production of any of its products. To the maximum extent permitted by law, YAGEO disclaims (i) any and all liability arising out of the application or use of any YAGEO product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for a particular purpose, non -infringement and merchantability.

YAGEO products are designed for general purpose applications under normal operation and usage conditions. Please contact YAGEO for the applications listed below which require especially high reliability for the prevention of defects which might directly cause damage to the third party's life, body or property: Aerospace equipment (artificial satellite, rocket, etc.), Atomic energy-related equipment, Aviation equipment, Disaster prevention equipment, crime prevention equipment, Electric heating apparatus, burning equipment, Highly public information network equipment, data-processing equipment, Medical devices, Military equipment, Power generation control equipment, Safety equipment, Traffic signal equipment, Transportation equipment and Undersea equipment, or for any other application or use in which the failure of YAGEO products could result in personal injury or death, or serious property damage. Particularly YAGEO Corporation and its affiliates do not recommend the use of commercial or automotive grade products for high reliability applications or manned space flight.

Information provided here is intended to indicate product specifications only. YAGEO reserves all the rights for revising this content without further notification, as long as products are unchanged. Any product change will be announced by PCN.

