

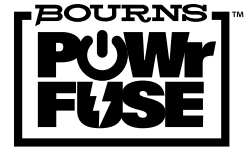




## POWrFuse™ PF-H (gPV) Series Features

- Designed to UL 248-19 and IEC 60269-6 (gPV) photovoltaic fuse standards
- 15-30 A ratings available
- Up to 150 kA interrupting rating
- Available in ferrule or PCB mounting options
- RoHS compliant\* and halogen free\*\*
- Agency recognition:  



## PF-H (gPV) Series – Photovoltaic Power Fuses

### Clearing Time Characteristics for Series







% of Current Rating	Clearing Time at 25 °C	
	Minimum	Maximum
100 %	4 hours	—
113 %	60 minutes	—
135 %	—	60 minutes
145 %	—	60 minutes
200 %	—	4 minutes

### Additional Information

Click these links for more information:



### Electrical Characteristics

Model	Rated Current (A)	Nominal Resistance (Ω)***	Rated Voltage	Interrupting Rating	Nominal I <sup>2</sup> t (A <sup>2</sup> s)****	Watts Loss (W)		Agency Recognition			
						@ 70 % I <sub>n</sub>	@ 100 % I <sub>n</sub>				
PF-HC1-15	15	0.008105	600 VAC 600 VDC	150 kA @ 600 VAC 50 kA @ 600 VDC 10 kA @ 600 VDC	51.64	2.2	5.4				
PF-HC1-20	20	0.004905			206.48	2.6	6.3				
PF-HC1-25	25	0.003745			1607.18	3.1	6.9				
PF-HC1-30	30	0.00287			1740	3.5	7.6				
PF-HT1-15	15	0.008105	600 VAC 600 VDC	150 kA @ 600 VAC 50 kA @ 600 VDC 10 kA @ 600 VDC	51.64	2.2	5.4				
PF-HT1-20	20	0.004905			206.48	2.6	6.3				
PF-HT1-25	25	0.003745			1607.18	3.1	6.9				
PF-HT1-30	30	0.00287			1740	3.5	7.6				

\*\*\* Resistance value measured with ≤10 % rated current at 25 °C ambient.

\*\*\*\* Nominal I<sup>2</sup>t value is measured at 10x rated current.

## BOURNS®

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**WARNING**  
Cancer and Reproductive Harm  
[www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

\* RoHS Directive 2015/863, Mar 31, 2015 and Annex.

\*\* Bourns considers a product to be "halogen free" if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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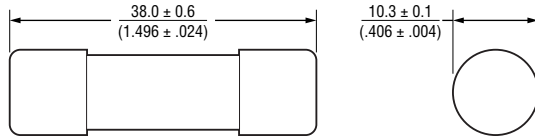
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# PF-H (gPV) Series – Photovoltaic Power Fuses



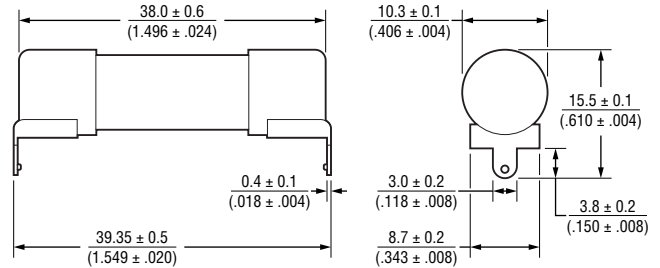
## Product Dimensions

### Ferrule/C1



DIMENSIONS:  $\frac{\text{MM}}{\text{(INCHES)}}$

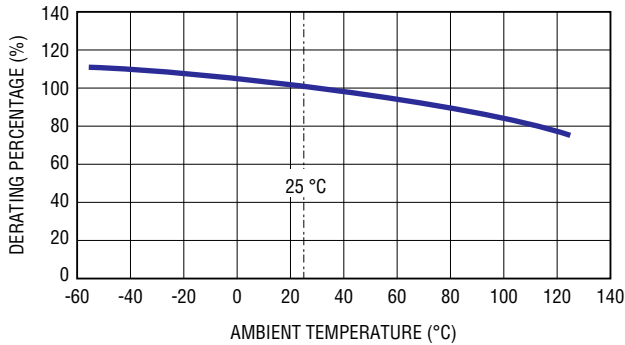
### PCB Mounting/T1



## Environmental Characteristics

Operating Temperature.....-55 °C to +125 °C

## Current Rating Thermal Derating Curve



## How to Order

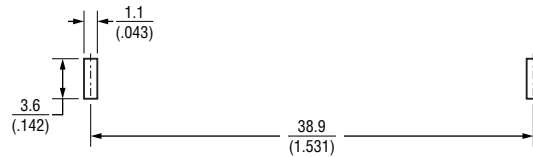
PF - H C1 - 15

POWrfuse™ \_\_\_\_\_  
 Product Designator \_\_\_\_\_  
 Series Name \_\_\_\_\_  
 Mounting Type \_\_\_\_\_  
 C1 = Ferrule, Type 1  
 T1 = PCB Mounting, Type 1  
 Rated Current \_\_\_\_\_  
 15 - 30 = 15 A - 30 A

## Packaging

Model	Quantity
PF-HC1	10 pcs. / box
PF-HT1	50 pcs. / tray

## Recommended Drilling Pattern



## Wave Soldering Recommendations (for PCB Mounting)

Profile Feature	Pb-Free Assembly
Preheat: Temperature Max. Temperature Min.	150 °C 100 °C
Solder Pot Temperature	280 °C max.
Solder Dwell Time	8 seconds max.

## Hand Soldering Recommendations (for PCB Mounting)

Soldering Iron Temperature	Heating Time
350 °C ± 5 °C	40 sec. max.

## Typical Part Marking

Model	Note	Ink Color	Marking
PF-HC1-15	15	Black	
PF-HC1-20	20		
PF-HC1-25	25		
PF-HC1-30	30		
PF-HT1-15	15	Black	
PF-HT1-20	20		
PF-HT1-25	25		
PF-HT1-30	30		

Specifications are subject to change without notice.

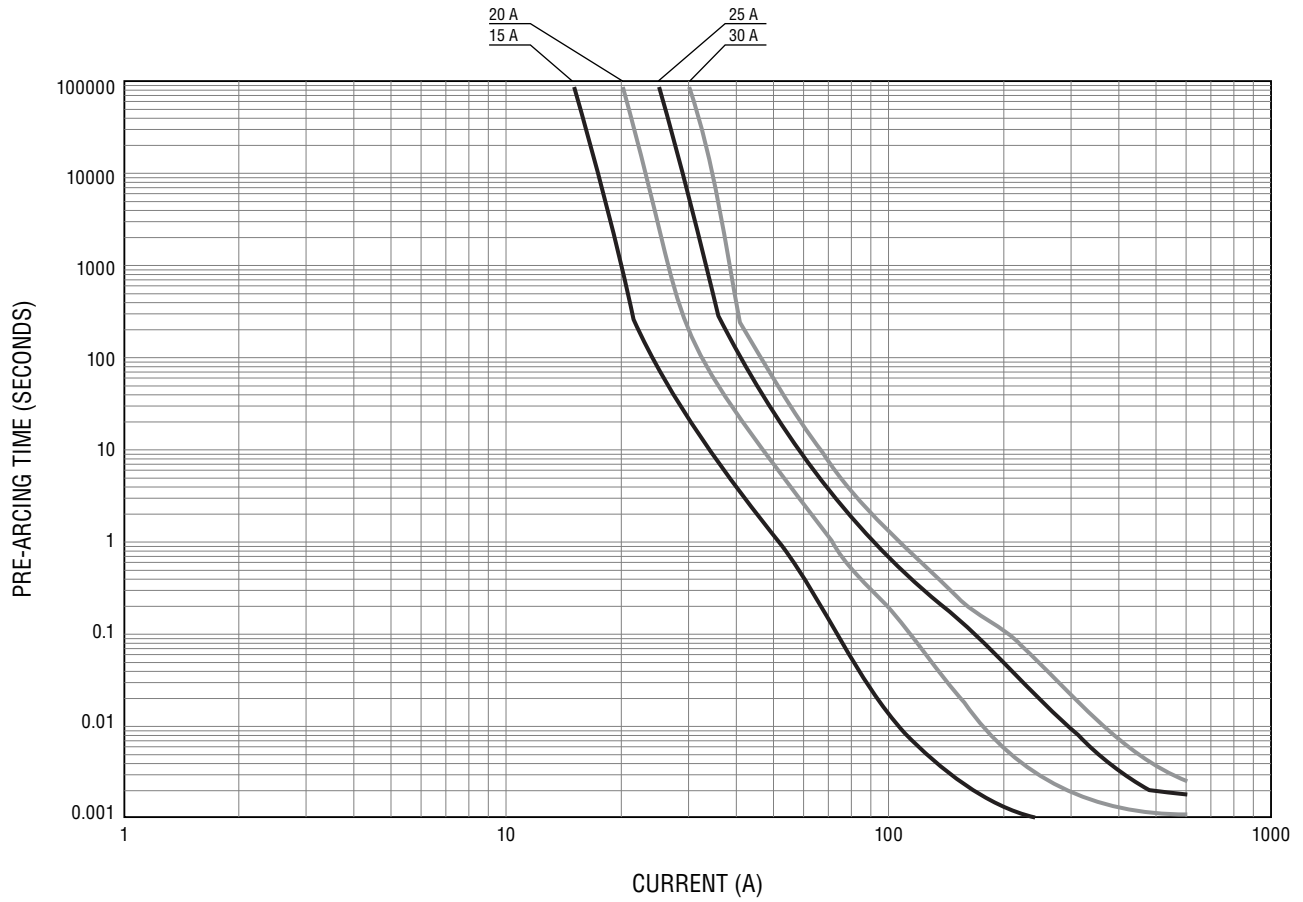
Users should verify actual device performance in their specific applications.

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# PF-H (gPV) Series – Photovoltaic Power Fuses

**BOURNS®**

Average Pre-Arcing Time vs. Current Curves



REV. 05/22

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