

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:

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Electrical Characteristics

Model	Rated Current (A)	Nominal Resistance (Ω)***	Rated Voltage	Interrupting Rating	Nominal I^2t (A^2s)****	Watts Loss (W)		Agency Recognition	
						@ 70 % I_n	@ 100 % I_n	cULus LISTED	TÜV Rheinland
PF-HC1-15	15	0.008105	600 VAC 600 VDC	cUL 150 kA @ 600 VAC 50 kA @ 600 VDC; TÜV 10 kA @ 600 VDC	51.64	2.2	5.4	E526252	R 50532110
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	cUL 150 kA @ 600 VAC 50 kA @ 600 VDC; TÜV 10 kA @ 600 VDC	51.64	2.2	5.4		TA 50532027
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^2t value is measured at 10x rated current.

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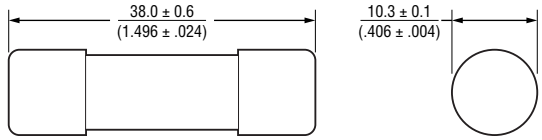
CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

* 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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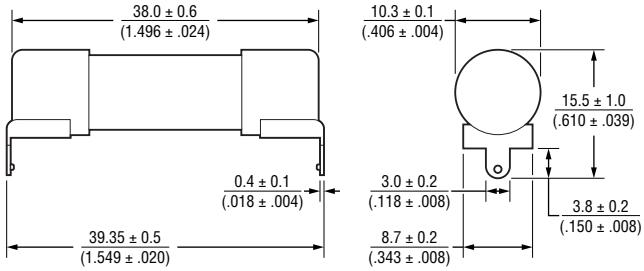
Product Dimensions

Ferrule/C1



DIMENSIONS: MM / (INCHES)

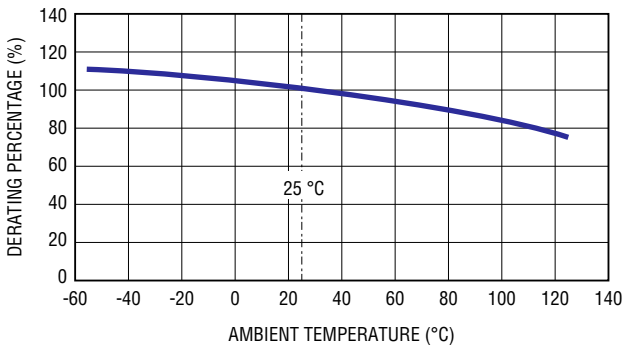
PCB Mounting/T1



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

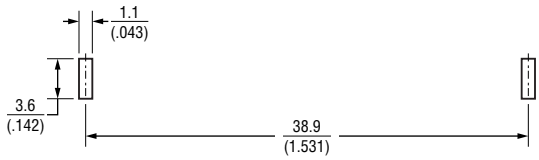
Mounting Type
C1 = Ferrule, Type 1
T1 = PCB Mounting, Type 1

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.

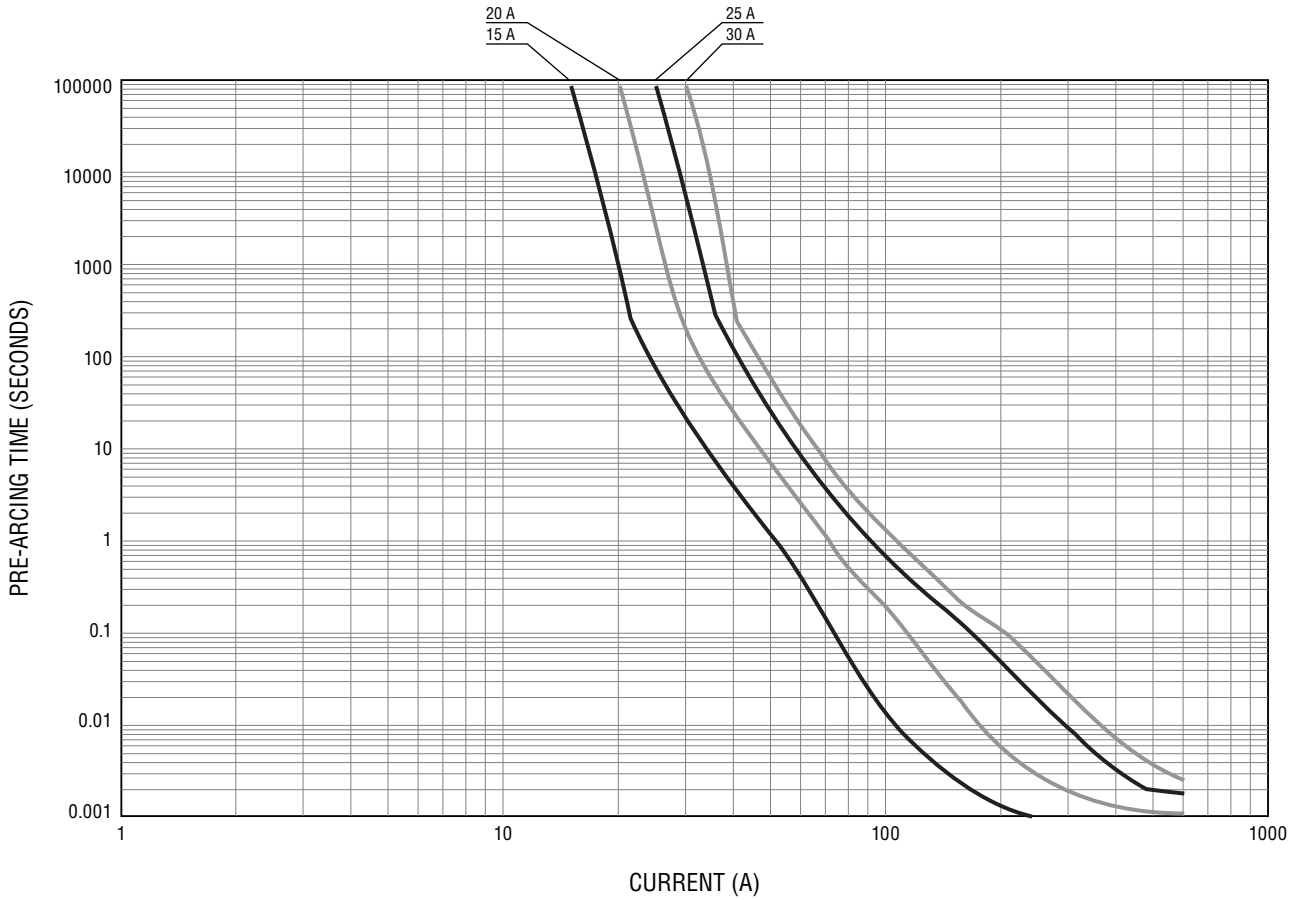
Typical Part Marking

Model	Note	Ink Color	Marking
PF-HC1-15	15	Black	BOURNS gPV PF-HC1 (Note) A 600V RoHS IR 10kA DC
PF-HC1-20	20		
PF-HC1-25	25		
PF-HC1-30	30		
PF-HT1-15	15	Black	BOURNS gPV PF-HT1 (Note) A 600V RoHS IR 10kA DC
PF-HT1-20	20		
PF-HT1-25	25		
PF-HT1-30	30		

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Average Pre-Arcing Time vs. Current Curves



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