



BOURNS®

POWrFuse™ PF-E Series Features

- Designed to UL 248-19 (gPV) photovoltaic fuse standard
- 15-30 A ratings available
- Up to 20 kA interrupting rating
- Available in ferrule or PCB mounting options
- RoHS compliant* and halogen free**
- Agency recognition: 



PF-E Series – Photovoltaic (gPV) Power Fuses

Clearing Time Characteristics for Series

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

Additional Information

Click these links for more information:



Environmental Characteristics

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

Electrical Characteristics

Model	Rated Current (A)	Nominal Resistance (Ω)***	Rated Voltage	Interrupting Rating	Nominal I^2t (A ² s)****	Watts Loss (W)			Agency Recognition E526252		
						@ 70 % I_n	@ 100 % I_n				
PF-EC1-15	15	0.00854	1000 VDC	20 kA @ 1000 VDC	365	1.24	3.06		E526252		
PF-ET1-15					804.3	1.33	3.22				
PF-EC1-20		0.00505			1202	1.66	4.28				
PF-ET1-20					2229	1.78	4.56				
PF-EC1-25		0.00396									
PF-ET1-25											
PF-EC1-30		0.00302									
PF-ET1-30											

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

**** Nominal I^2t value measured at 20 kA / 500 VDC.

BOURNS®

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* 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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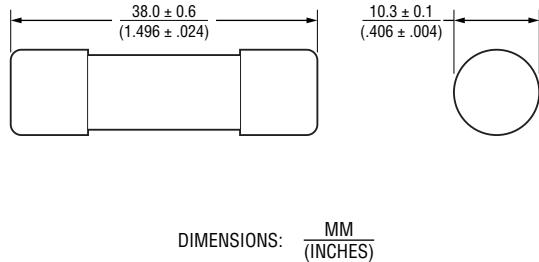
WARNING
Cancer and Reproductive Harm
www.P65Warnings.ca.gov

PF-E Series – Photovoltaic (gPV) Power Fuses

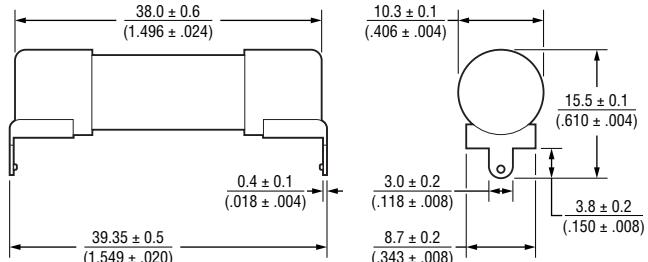
BOURNS®

Product Dimensions

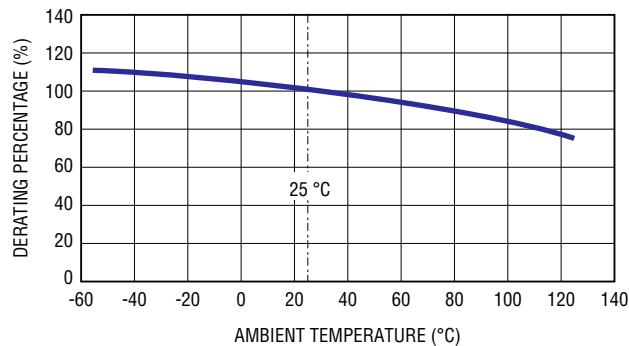
Ferrule/C1



PCB Mounting/T1



Current Rating Thermal Derating Curve



How to Order

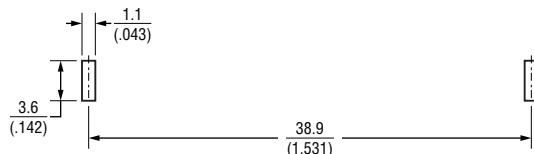
PF - E C1 - 15

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-EC1	10 pcs. / box
PF-ET1	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-EC1-15	15	Black	BOURNS® gPV LISTED PF-EC1 <small>(Note) A</small> 1000V <small>RoHS</small> <small>RoHS</small>
PF-EC1-20	20		
PF-EC1-25	25		
PF-EC1-30	30		
PF-ET1-15	15	Black	BOURNS® gPV LISTED PF-ET1 <small>(Note) A</small> 1000V <small>RoHS</small> <small>RoHS</small>
PF-ET1-20	20		
PF-ET1-25	25		
PF-ET1-30	30		

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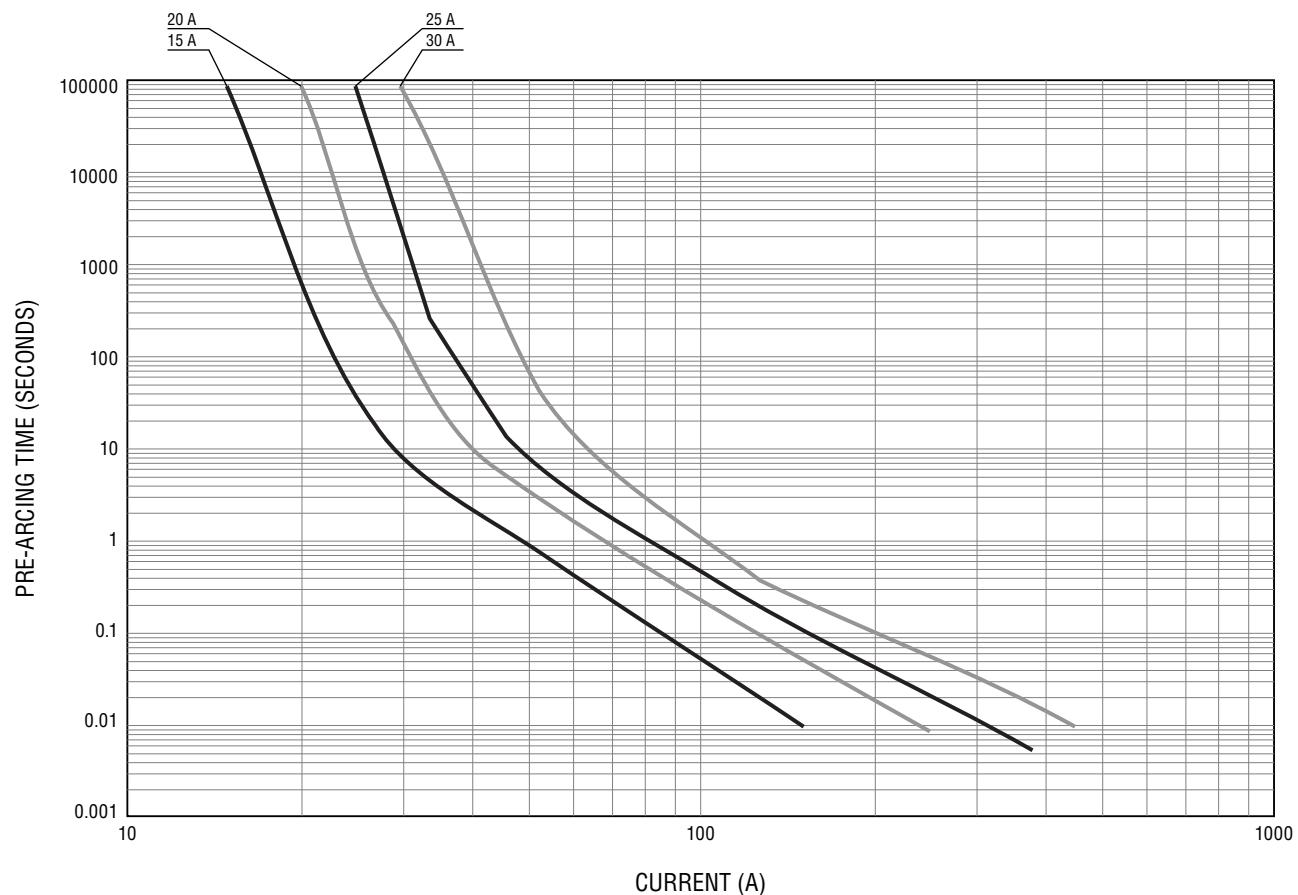
Users should verify actual device performance in their specific applications.

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Average Pre-Arcing Time vs. Current Curves



REV. 05/22

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