

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: c UL us LISTED

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:

PRODUCT SELECTOR | TECHNICAL LIBRARY | INVENTORY | SAMPLES | CONTACT

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^2s)****	Watts Loss (W)		Agency Recognition
						@ 70 % I_n	@ 100 % I_n	c UL us LISTED
PF-EC1-15	15	0.00854	1000 VDC	20 kA @ 1000 VDC	365	1.24	3.06	E526252
PF-ET1-15								
PF-EC1-20	20	0.00505			804.3	1.33	3.22	
PF-ET1-20								
PF-EC1-25	25	0.00396			1202	1.66	4.28	
PF-ET1-25								
PF-EC1-30	30	0.00302			2229	1.78	4.56	
PF-ET1-30								

*** Resistance value measured with ≤10 % rated current at 25 °C ambient.
**** Nominal I^2t value measured at 20 kA / 1000 VDC.

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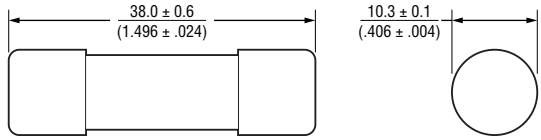
CALIFORNIA WARNING: Can expose you to lead, a carcinogen and reproductive toxicant.
See www.P65Warnings.ca.gov

* 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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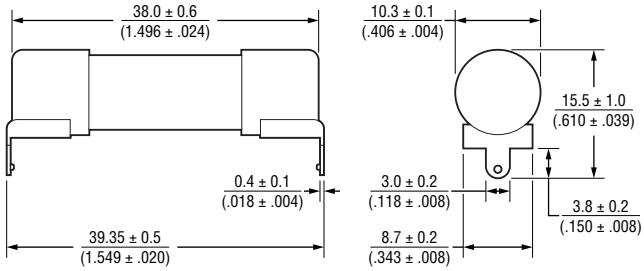
Product Dimensions

Ferrule/C1

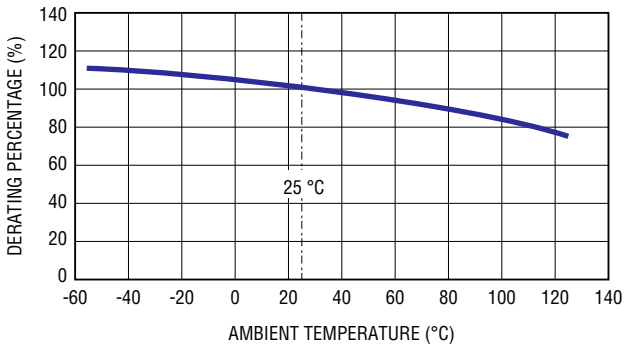


DIMENSIONS: MM / (INCHES)

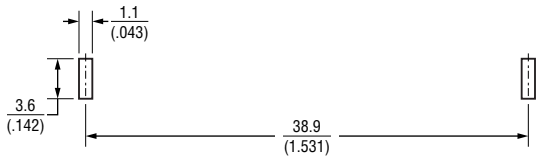
PCB Mounting/T1



Current Rating Thermal Derating Curve



Recommended Drilling Pattern



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

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.

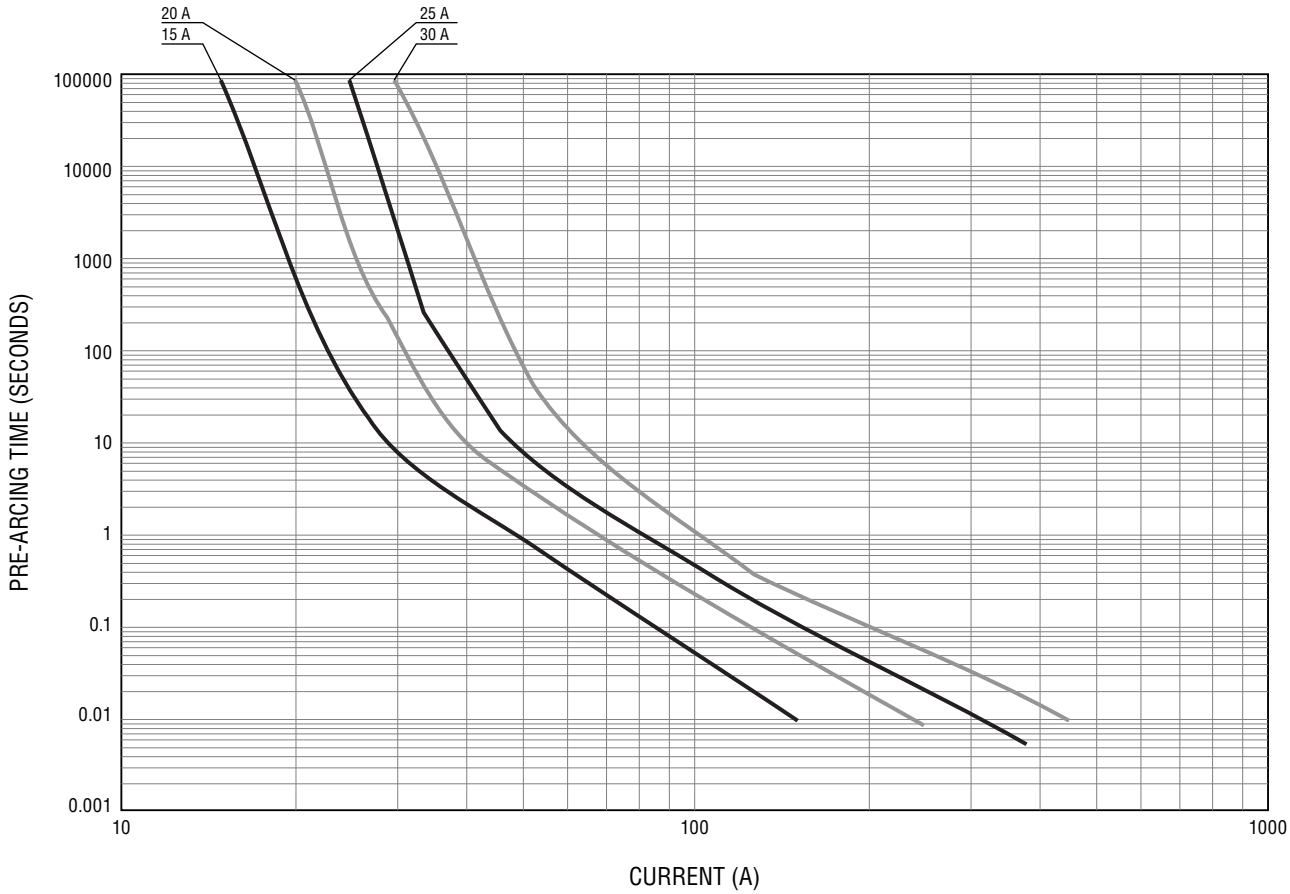
Typical Part Marking

Model	Note	Ink Color	Marking
PF-EC1-15	15	Black	BOURNS gPV c UL us LISTED IR 20KA DC PF-EC1 (Note) A 1000V RoHS
PF-EC1-20	20		
PF-EC1-25	25		
PF-EC1-30	30		
PF-ET1-15	15	Black	BOURNS gPV c UL us LISTED IR 20KA DC PF-ET1 (Note) A 1000V RoHS
PF-ET1-20	20		
PF-ET1-25	25		
PF-ET1-30	30		

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Average Pre-Arcing Time vs. Current Curves



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