

Radial Leaded Fuse, PTC, 72 VDC



72.0VDC · 1.1 - 3.75A



Description

- Replacement for PFRX type
- Max. rated voltage 72 VDC

Standards

- UL 1434
- CSA C22.2 no. 0, TIL no. CA-3A

Approvals

- UL File Number: E172175

Applications

- Security and fire alarm systems
- Loud speakers
- Power transformers

References

- [General Product Information](#)
- [Packaging Details](#)

Weblinks

- [Approvals, RoHS, CHINA-RoHS, e-Store, Distributor-Stock-Check, Accessories, Product Change Notification \(PCN\)](#)

Technical Data

| | |
|---------------------------|----------------------------|
| V max | 72.0VDC |
| I _{max} | 40A |
| I hold | 1.1 - 3.75A |
| Mounting | PCB, THT |
| Allowable Operation Temp. | -40°C to 85°C |
| Material: Terminals | Tin-Plated Copper |
| Weight | 3 g |
| Storage Conditions | 0°C to 40°C, max. 70% r.h. |
| Product Marking | Type, Current |

| | |
|------------------------------|--|
| Soldering Methods | Wave |
| Solderability | 235 °C / 2 sec |
| Resistance to Soldering Heat | 260 °C / 10 sec |
| Passing Aging | +85 °C, 1000 Hours -> +/- 5% Typical Resistance Change |
| Humidity Aging | +85 °C, 85% r.h., 1000 Hours -> +/- 5% Typical Resistance Change |
| Thermal Shock | +85 °C to -55 °C, 10 Times -> +/- 10% Typical Resistance Change |
| Vibration | MIL-STD-883C, Method 2007.1, Test Condition A |
| Resistance to Solvents | MIL-STD-202, Methode 215 |

Dimensions



PRFA.250 - PFRA.1100

Drilling diagram

Dimensions

| A max [mm] | B max [mm] | C min [mm] | C max [mm] | D min [mm] | E max [mm] | Ø Lead [mm] | Order Number |
|------------|------------|------------|------------|------------|------------|-------------|--------------|
| 10.84 | 16.8 | 4.4 | 5.8 | 7.6 | 3 | 0.81 | PFRY.110 |
| 12.26 | 18.3 | 4.4 | 5.8 | 7.6 | 3 | 0.81 | PFRY.135 |
| 13.94 | 19.9 | 4.4 | 5.8 | 7.6 | 3 | 0.81 | PFRY.160 |
| 15.18 | 21.2 | 4.4 | 5.8 | 7.6 | 3 | 0.81 | PFRY.185 |
| 17.84 | 23.8 | 9.5 | 10.9 | 7.6 | 3 | 0.81 | PFRY.250 |
| 20.67 | 23.8 | 9.5 | 10.9 | 7.6 | 3 | 0.81 | PFRY.300 |
| 23.51 | 29.6 | 9.5 | 10.9 | 7.6 | 3 | 0.81 | PFRY.375 |

Thermal Derating Chart Ihold [A]

| -40 °C | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C | Order Number |
|--------|--------|------|-------|-------|-------|-------|-------|-------|--------------|
| 1.71 | 1.5 | 1.31 | 1.1 | 0.89 | 0.79 | 0.69 | 0.59 | 0.44 | PFRY.110 |
| 2.09 | 1.84 | 1.61 | 1.35 | 1.09 | 0.97 | 0.85 | 0.73 | 0.54 | PFRY.135 |
| 2.48 | 2.18 | 1.9 | 1.6 | 1.3 | 1.15 | 1.01 | 0.86 | 0.64 | PFRY.160 |
| 2.87 | 2.52 | 2.2 | 1.85 | 1.5 | 1.33 | 1.17 | 1 | 0.74 | PFRY.185 |
| 3.88 | 3.4 | 2.98 | 2.5 | 2.03 | 1.8 | 1.58 | 1.35 | 1 | PFRY.250 |
| 4.65 | 4.08 | 3.57 | 3 | 2.43 | 2.16 | 1.89 | 1.62 | 1.2 | PFRY.300 |
| 5.81 | 5.1 | 4.46 | 3.75 | 3.04 | 2.7 | 2.36 | 2.03 | 1.5 | PFRY.375 |

Electrical Characteristics at 23 °C

| V max [VDC] | I max [A] | I hold [A] | I trip [A] | R initial min [Ω] | R initial max [Ω] | R 1hour max [Ω] | Max Time to trip [A] | Max Time to Trip [s] | Tripped Power Dissipation [W] | Order Number |
|-------------|-----------|------------|------------|-------------------|-------------------|-----------------|----------------------|----------------------|-------------------------------|--------------|
| 72.0 | 40 | 1.1 | 2.2 | 0.15 | 0.25 | 0.38 | 5.5 | 8.2 | - | PFRY.110 |
| 72.0 | 40 | 1.35 | 2.7 | 0.12 | 0.19 | 0.3 | 6.75 | 9.6 | 1.70 | PFRY.135 |
| 72.0 | 40 | 1.6 | 3.2 | 0.09 | 0.14 | 0.22 | 8 | 11.4 | 1.90 | PFRY.160 |
| 72.0 | 40 | 1.85 | 3.7 | 0.08 | 0.12 | 0.19 | 9.25 | 12.6 | 2.10 | PFRY.185 |
| 72.0 | 40 | 2.5 | 5 | 0.05 | 0.08 | 0.13 | 12.5 | 15.6 | 2.50 | PFRY.250 |
| 72.0 | 40 | 3 | 6 | 0.04 | 0.06 | 0.1 | 15 | 19.8 | 2.80 | PFRY.300 |
| 72.0 | 40 | 3.75 | 7.5 | 0.03 | 0.05 | 0.08 | 18.75 | 24 | 3.20 | PFRY.375 |

Packaging Unit PFRY.xxxBulk (500 pcs.)

Time-Current-Curves

