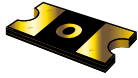


Surface Mount Fuse, PTC, 1206 footprint, 3.2 x 1.6 mm, 30 VDC



6.0 - 30.0VDC · 0.12 - 2A



Description

- Directly solderable on printed circuit boards

Standards

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

Approvals

- UL File Number: E172175
- CSA File Number: 702083

Applications

- USB port protection
- PC motherboards
- PDA's / Digital Cameras
- Game console port protection

References

[Packaging Details](#)

Weblinks

[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

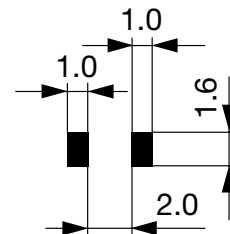
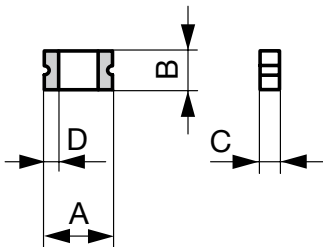
Technical Data

| | |
|---------------------------|--|
| V max | 6.0 - 30.0VDC |
| I _{max} | 10 - 100A |
| I hold | 0.12 - 2A |
| Mounting | PCB,SMT |
| Allowable Operation Temp. | -40 °C to 85 °C |
| Material: Terminals | Electroless Nickel under Immerion Gold |
| Weight | 0.011 g |
| Storage Conditions | 0 °C to 40 °C, max. 70% r.h. |
| Product Marking | I hold |

| | |
|------------------------------|--|
| Soldering Methods | Reflow |
| Solderability | 245 °C / 3 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 -40 °C, 20 Times -> +/- 10% Typical Resistance Change |
| Vibration | MIL-STD-883C, Method 2007.1, Test Condition A |
| Resistance to Solvents | MIL-STD-202, Methode 215 |

Dimensions

3.2 mm



Soldering pads

Dimensions

| A min [mm] | A max [mm] | B min [mm] | Insert depth | C min [mm] | C max [mm] | D min [mm] | Order Number |
|------------|------------|------------|--------------|------------|------------|------------|--------------|
| 3 | 3.4 | 1.4 | 1.8 | 0.7 | 1.1 | 0.25 | PFNF.012.2 |
| 3 | 3.4 | 1.4 | 1.8 | 0.48 | 0.85 | 0.25 | PFNF.020.2 |
| 3 | 3.4 | 1.4 | 1.8 | 0.48 | 0.85 | 0.25 | PFNF.035.2 |
| 3 | 3.4 | 1.4 | 1.8 | 0.48 | 0.85 | 0.25 | PFNF.050.2 |
| 3 | 3.4 | 1.4 | 1.8 | 0.4 | 0.7 | 0.25 | PFNF.075.2 |
| 3 | 3.4 | 1.4 | 1.8 | 0.4 | 0.7 | 0.25 | PFNF.110.2 |
| 3 | 3.4 | 1.4 | 1.8 | 0.4 | 0.7 | 0.25 | PFNF.150.2 |
| 3 | 3.4 | 1.4 | 1.8 | 0.7 | 1.1 | 0.25 | PFNF.200.2 |

Thermal Derating Chart Ihold [A]

| Order Number | -40 °C | -20 °C | 0 °C | 23 °C | 40 °C | 50 °C | 60 °C | 70 °C | 85 °C | Order Number |
|--------------|--------|--------|------|-------|-------|-------|-------|-------|-------|--------------|
| PFNF.012.2 | 0.19 | 0.17 | 0.15 | 0.12 | 0.11 | 0.1 | 0.09 | 0.08 | 0.07 | PFNF.012.2 |
| PFNF.020.2 | 0.3 | 0.27 | 0.24 | 0.2 | 0.18 | 0.16 | 0.14 | 0.12 | 0.11 | PFNF.020.2 |
| PFNF.035.2 | 0.51 | 0.46 | 0.4 | 0.35 | 0.3 | 0.27 | 0.24 | 0.22 | 0.18 | PFNF.035.2 |
| PFNF.050.2 | 0.76 | 0.68 | 0.59 | 0.5 | 0.44 | 0.4 | 0.35 | 0.32 | 0.26 | PFNF.050.2 |
| PFNF.075.2 | 1.11 | 1 | 0.85 | 0.75 | 0.67 | 0.61 | 0.52 | 0.5 | 0.42 | PFNF.075.2 |
| PFNF.110.2 | 1.64 | 1.46 | 1.3 | 1.1 | 0.92 | 0.83 | 0.8 | 0.65 | 0.52 | PFNF.110.2 |
| PFNF.150.2 | 2.2 | 1.99 | 1.77 | 1.5 | 1.34 | 1.23 | 1.1 | 1.01 | 0.84 | PFNF.150.2 |
| PFNF.200.2 | 2.88 | 2.61 | 2.28 | 2 | 1.8 | 1.66 | 1.51 | 1.39 | 1.19 | PFNF.200.2 |

Electrical Characteristics at 23 °C

| V max [VDC] | I max [A] | I hold [A] | I trip [A] | R initial min [Ω] | R 1hour max [Ω] | Max Time to trip [A] | Max Time to Trip [s] | Tripped Power Dissipation [W] | Order Number |
|-------------|-----------|------------|------------|-------------------|-----------------|----------------------|----------------------|-------------------------------|--------------|
| 30.0 | 10 | 0.12 | 0.29 | 1.35 | 8.5 | 1 | 0.2 | 0.40 | PFNF.012.2 |
| 24.0 | 10 | 0.2 | 0.46 | 0.6 | 2.6 | 1 | 0.6 | 0.60 | PFNF.020.2 |
| 6.0 | 100 | 0.35 | 0.75 | 0.3 | 1.2 | 8 | 0.1 | 0.60 | PFNF.035.2 |
| 13.2 | 100 | 0.5 | 1 | 0.15 | 0.7 | 8 | 0.1 | 0.40 | PFNF.050.2 |
| 6.0 | 100 | 0.75 | 1.5 | 0.1 | 0.4 | 8 | 0.1 | 0.40 | PFNF.075.2 |
| 6.0 | 100 | 1.1 | 2.2 | 0.06 | 0.2 | 8 | 0.3 | 0.60 | PFNF.110.2 |
| 6.0 | 100 | 1.5 | 3 | 0.03 | 0.13 | 8 | 1 | 0.60 | PFNF.150.2 |
| 6.0 | 100 | 2 | 4 | 0.02 | 0.085 | 8 | 1 | 0.70 | PFNF.200.2 |

Packaging Unit Blister Tape 18 cm Reel (3000 pcs.)

Time-Current-Curves

