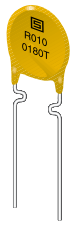


Radial Leaded Fuse, PTC, 60 VDC



16.0 - 60.0VDC · 0.1 - 11A



Description

- THT standard industry type
- Directly solderable on printed circuit boards

Standards

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

Approvals

- UL File Number: E172175

Applications

- Computer & Peripherals
- General electronics
- Automotive applications

References

[General Product Information](#)
 Time-Current Curves see last page
[Packaging Details](#)

Weblinks

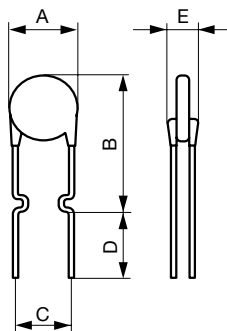
[Approvals](#), [RoHS](#), [CHINA-RoHS](#), [e-Store](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#)

Technical Data

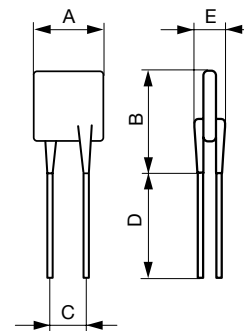
V max	16.0 - 60.0VDC
I max	40 - 100A
I hold	0.1 - 11A
Fastening	PCB,THT
Allowable Operation Temp.	-40 °C to 85 °C
Material: Terminals	see variants
Weight	0.35 g
Storage Conditions	0 °C to 40 °C, max. 70% r.h.
Product Marking	, Type, I hold

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	MIL-STD-202, Method 107 (+125 °C to -55 °C, 10 Cycles) -> +/- 15% Typical Resistance Change
Vibration	MIL-STD-883C, Method 2007.1, Test Condition A
Resistance to Solvents	MIL-STD-202, Methode 215
Flammability	UL 94V-0

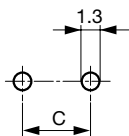
Dimensions



PFRA.010 - PFRA.185



PRFA.250 - PFRA.1100



Drilling holes

Dimensions

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

A max [mm]	B max [mm]	C min [mm]	C max [mm]	D min [mm]	E max [mm]	Ø Lead [mm]	Terminal	Order Number
7.4	12.7	4.4	5.8	7.6	3.1	0.51	Tin-Pated NiCu	PFRA.010
7.4	12.7	4.4	5.8	7.6	3.1	0.51	Tin-Plated CuFe	PFRA.017
7.4	12.7	4.4	5.8	7.6	3.1	0.51	Tin-Plated CuFe	PFRA.020
7.4	12.7	4.4	5.8	7.6	3.1	0.51	Tin-Plated CuFe	PFRA.025
7.4	13.4	4.4	5.8	7.6	3.1	0.51	Tin-Plated CuFe	PFRA.030
7.4	13.7	4.4	5.8	7.6	3.1	0.51	Tin-Plated CuFe	PFRA.040
7.9	13.7	4.4	5.8	7.6	3.1	0.51	see variants	PFRA.050
9.7	15.2	4.4	5.8	7.6	3.1	0.51	see variants	PFRA.065
10.4	16	4.4	5.8	7.6	3.1	0.51	see variants	PFRA.075
11.7	16.7	4.4	5.8	7.6	3.1	0.51	see variants	PFRA.090
8.9	14	4.4	5.8	7.6	3	0.51	see variants	PFRA.110
8.9	18.9	4.4	5.8	7.6	3	0.51	see variants	PFRA.135
10.2	16.8	4.4	5.8	7.6	3	0.51	see variants	PFRA.160
12	18.4	4.4	5.8	7.6	3	0.51	see variants	PFRA.185
12	18.3	4.4	5.8	7.6	3	0.81	see variants	PFRA.250
12	18.3	4.4	5.8	7.6	3	0.81	see variants	PFRA.300
14.4	24.8	4.4	5.8	7.6	3	0.81	see variants	PFRA.400
17.4	24.9	9.5	10.9	7.6	3	0.81	see variants	PFRA.500
19.3	31.9	9.5	10.9	7.6	3	0.81	see variants	PFRA.600
22.1	29.8	9.5	10.9	7.6	3	0.81	see variants	PFRA.700
24.2	32.9	9.5	10.9	7.6	3	0.81	see variants	PFRA.800
24.2	32.9	9.5	10.9	7.6	3	0.81	see variants	PFRA.900
24.2	32.9	9.5	10.9	7.6	3	0.81	see variants	PFRA.1100

Thermal Derating Chart Ihold [A]

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C	Order Number
0.16	0.14	0.12	0.1	0.08	0.07	0.06	0.05	0.04	PFRA.010
0.26	0.23	0.2	0.17	0.14	0.12	0.11	0.09	0.07	PFRA.017
0.31	0.27	0.24	0.2	0.16	0.14	0.13	0.11	0.08	PFRA.020
0.39	0.34	0.3	0.25	0.2	0.18	0.16	0.14	0.1	PFRA.025
0.47	0.41	0.36	0.3	0.24	0.22	0.19	0.16	0.12	PFRA.030
0.62	0.54	0.48	0.4	0.32	0.29	0.25	0.22	0.16	PFRA.040
0.78	0.68	0.6	0.5	0.41	0.36	0.32	0.27	0.2	PFRA.050
1.01	0.88	0.77	0.65	0.53	0.47	0.41	0.35	0.26	PFRA.065
1.16	1.02	0.89	0.75	0.61	0.54	0.47	0.41	0.3	PFRA.075
1.4	1.22	1.07	0.9	0.73	0.65	0.57	0.49	0.36	PFRA.090
1.6	1.43	1.27	1.1	0.91	0.85	0.75	0.67	0.57	PFRA.110
1.96	1.76	1.55	1.35	1.12	1.04	0.92	0.82	0.7	PFRA.135

-40 °C	-20 °C	0 °C	23 °C	40 °C	50 °C	60 °C	70 °C	85 °C	Order Number
2.32	2.08	1.84	1.6	1.33	1.32	1.09	0.98	0.83	PFRA.160
2.68	2.41	2.13	1.85	1.54	1.42	1.26	1.13	0.96	PFRA.185
3.63	3.25	2.88	2.5	2.08	1.93	1.7	1.53	1.3	PFRA.250
4.35	3.9	3.45	3	2.49	2.31	2.04	1.83	1.56	PFRA.300
5.8	5.2	4.6	4	3.32	3.08	2.72	2.44	2.08	PFRA.400
7.25	6.5	5.75	5	4.15	3.85	3.4	3.05	2.6	PFRA.500
8.7	7.8	6.9	6	4.98	4.62	4.08	3.66	3.12	PFRA.600
10.1	9.1	8.05	7	5.81	5.39	4.76	4.27	3.64	PFRA.700
11.6	10.4	9.2	8	6.64	6.16	5.44	4.88	4.16	PFRA.800
13	11.7	10.3	9	7.47	6.93	6.12	5.49	4.68	PFRA.900
16.1	14.6	13.1	11	9.4	8.8	7.8	6.9	5.2	PFRA.1100

Electrical Characteristics at 23 °C

[Distributor-Stock-Check](#) | [SCHURTER-Stock-Check](#) | [e-Store](#)

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
60.0	40	0.1	0.2	2.5	4.5	7.5	0.5	4	0.38	PFRA.010
60.0	40	0.17	0.34	2	3.2	8	0.85	3	0.48	PFRA.017
60.0	40	0.2	0.4	1.5	2.84	4.4	1	2.2	0.40	PFRA.020
60.0	40	0.25	0.5	1	1.95	3	1.25	2.5	0.45	PFRA.025
60.0	40	0.3	0.6	0.76	1.36	2.1	1.5	3	0.50	PFRA.030
60.0	40	0.4	0.8	0.52	0.86	1.29	2	3.8	0.55	PFRA.040
60.0	40	0.5	1	0.41	0.77	1.17	2.5	4	0.75	PFRA.050
60.0	40	0.65	1.3	0.27	0.48	0.72	3.25	5.3	0.90	PFRA.065
60.0	40	0.75	1.5	0.18	0.4	0.6	3.75	6.3	0.90	PFRA.075
60.0	40	0.9	1.8	0.14	0.31	0.47	4.5	7.2	1.00	PFRA.090
30.0	40	1.1	2.2	0.1	0.18	0.27	5.5	6.6	0.70	PFRA.110
30.0	40	1.35	2.7	0.065	0.115	0.17	6.75	7.3	0.80	PFRA.135
30.0	40	1.6	3.2	0.055	0.105	0.15	8	8	0.90	PFRA.160
30.0	40	1.85	3.7	0.04	0.07	0.11	9.25	8.7	1.00	PFRA.185
30.0	40	2.5	5	0.025	0.048	0.07	12.5	10.3	1.20	PFRA.250
30.0	40	3	6	0.02	0.05	0.08	15	10.8	2.00	PFRA.300
30.0	40	4	8	0.01	0.03	0.05	20	12.7	2.50	PFRA.400
30.0	40	5	10	0.01	0.03	0.05	25	14.5	3.00	PFRA.500
30.0	40	6	12	0.005	0.02	0.04	30	16	3.50	PFRA.600
30.0	40	7	14	0.005	0.02	0.03	35	17.5	3.80	PFRA.700
30.0	40	8	16	0.005	0.02	0.03	40	18.8	4.00	PFRA.800
30.0	40	9	18	0.005	0.01	0.02	45	20	4.20	PFRA.900
16.0	100	11	22	0.003	0.01	0.01	40	20	4.50	PFRA.1100

Packaging Unit

PFRA.xxxx Bulk (500 pcs.)
 PFRA.010.2 - PFRA.160.2 Taped 34 cm Reel (3000 pcs.)
 PFRA.185.2 - PFRA.400.2 Taped 34 cm Reel (1500 pcs.)

Time-Current Curves

