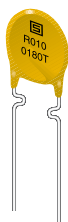


Radial Leaded Fuse, PTC, 60 VDC



16.0 - 60.0VDC · 0.1 - 11 A



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
- CSA File Number: 702083

Applications

- Computer & Peripherals
- General electronics
- Automotive applications

References

[Packaging Details](#)

Weblinks

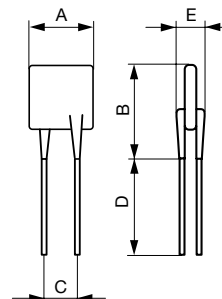
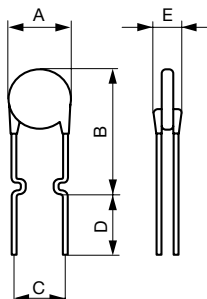
[pdf-datasheet](#), [html-datasheet](#), [General Product Information](#), [Approvals](#), [CE declaration of conformity](#), [RoHS](#), [CHINA-RoHS](#), [e-Shop](#), [SCHURTER-Stock-Check](#), [Distributor-Stock-Check](#), [Detailed request for product](#)

Technical Data

V max	16.0 - 60.0VDC
I _{max}	40 - 100A
I hold	0.1 - 11 A
Mounting	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

Dimension



PFRA.010 - PFRA.185

PFRA.250 - PFRA.1100

Undervoltage release

A max [mm]	Insert depth	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	

■ Most Popular.

Availability for all products can be searched real-time: <http://www.schurter.com/en/Stock-Check/Stock-Check-SCHURTER>

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	
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	■
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	

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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
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

Most Popular.

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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

