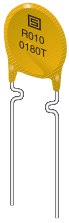


Radial Leaded Fuse



16.0 - 60.0 VDC · 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

Applications

- Computer & peripherals
- General electronics
- Automotive applications

References

[General Product Information](#)

Time-Current Curves see last page


[Packaging Details](#)

Weblinks

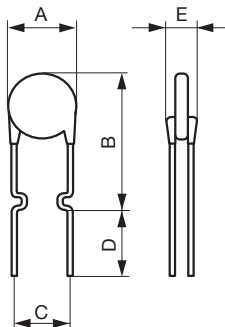
Approvals: <http://www.schurter.com/approvals>

RoHS: <http://www.schurter.com/rohs>

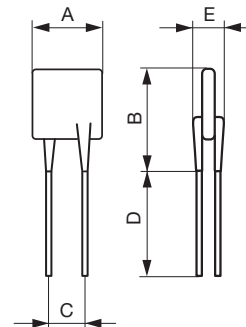
Technical Data

V max	16.0 - 60.0 VDC
I max	40 - 100 A
I hold	0.1 - 11 A
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

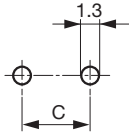
Soldering Methods	Wave
Solderability	235 °C / 2 sec
Resistance to Soldering Heat	260 °C / 10 sec
Passing Aging	+85 °C, 1000 Hours -> +/- 5% Typical Resistance Change
Humidity Aging	+85 °C, 85% r.h., 1000 Hours -> +/- 5% Typical Resistance Change
Thermal Shock	MIL-STD-202, Method 107 (+125 °C to -55 °C, 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



PFRA.250 - PFRA.1100



Drilling holes

Dimensions

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

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

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

Electrical Characteristics at 23 °C

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

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.)

PFRA

