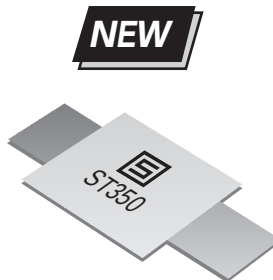
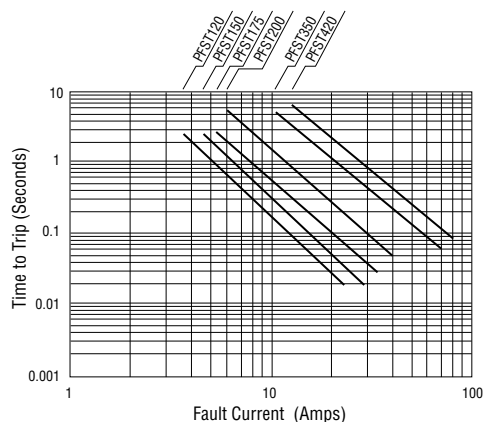


PFST Polymeric PTC Resettable Fuse - Strap



Typical Time to Trip at 23°C



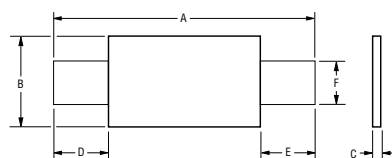
- Fully compatible with current industry standards
- Weldable nickel terminals
- Very low internal resistance
- Applications: Rechargeable Battery Pack Protection

Approvals*:

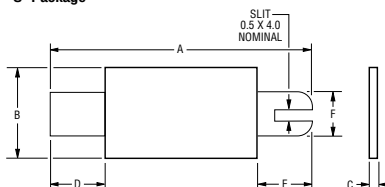
UL recognition, file #E172175
(1.2A - 1.75A/15V; 2A - 3.5A/30V)
CSA acceptance, file #CA702083
(1.2A - 1.75A/15V; 2A - 3.5A/30V)
TÜV pending

* rated amps at hold current I_{hold}

Standard Package

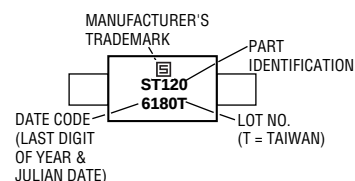


"S" Package



Typical Part Marking

Represents total content. Layout may vary.



Technical Data

Operating/Storage Temperature	-40°C to +85°C	
Maximum Device Surface Temperature in Tripped State	125°C	
Passive 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/-40°C 10 times	±10% typical resistance change
Vibration	MIL-STD-883C, Method 2007.1, Condition A	No change

Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech.	Verify dimensions and materials	Per PF physical description
Resistance	In still air @ 23°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	5 times I_{hold} , V_{max} , 23°C	$T \leq \text{max. time to trip (seconds)}$
Hold Current	30 min. at I_{hold}	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 48 hours	No arcing or burning

Product Dimensions

Model	A		B		C		D		F		Material
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
PFST.120	19.9	22.1	4.9	5.2	0.6	1.0	5.5	7.5	3.9	4.1	Nickel
PFST.120S	19.9	22.1	4.9	5.2	0.6	1.0	5.5	7.5	3.9	4.1	Nickel
PFST.150	20.9	23.1	10.2	11.8	0.6	1.0	4.1	5.5	4.8	5.5	Nickel
PFST.175	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1	Nickel
PFST.175S	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1	Nickel
PFST.200	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4	Nickel
PFST.350	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	6.0	6.6	Nickel
PFST.420	30.6	32.4	13.0	13.5	0.5	1.1	5.0	7.5	6.0	6.7	Nickel

DIMENSIONS = MM

PFST Technical Data, continued



Electrical Characteristics

Model	V max. Volts	I max. Amps	I _{hold}	I _{trip}	Initial Resistance		1 Hour (R ₁) Post-Trip Resistance	Max. Time To Trip at 5*I _h	Tripped Power Dissipation
			Amperes at 23°C		Ohms at 23°C		Ohms at 23°C	Seconds at 23°C	Watts at 23°C
			Hold	Trip	Min.	Max.	Max.		
PFST.120	15	100	1.20	2.7	0.085	0.160	0.22	5.0	1.2
PFST.120S	15	100	1.20	2.7	0.085	0.160	0.22	5.0	1.2
PFST.150	15	100	1.50	3.00	0.05	0.09	0.11	5.0	1.30
PFST.175	15	100	1.75	3.8	0.05	0.09	0.120	4.0	1.5
PFST.175S	15	100	1.75	3.8	0.05	0.09	0.120	4.0	1.5
PFST.200	30	100	2.00	4.4	0.03	0.06	0.080	4.0	1.90
PFST.350	30	100	3.50	6.3	0.017	0.031	0.040	3.0*	2.50
PFST.420	30	100	4.20	7.6	0.012	0.024	0.040	6.0*	2.90

All models packaged loose.

Optional slotted leads (.S) available for 1.20 A and 1.75 A ratings

*Tested at 20.0 Amps

Thermal Derating Chart - I_{hold} (Amps)

Model	Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
PFST.120	1.9	1.7	1.5	1.2	1.0	0.9	0.8	0.7	0.5
PFST.120S	1.9	1.7	1.5	1.2	1.0	0.9	0.8	0.7	0.5
PFST.150	2.2	2.0	1.8	1.5	1.3	1.1	1.0	0.9	0.7
PFST.175	2.5	2.3	2.0	1.7	1.5	1.3	1.2	1.1	0.9
PFST.175S	2.5	2.3	2.0	1.7	1.5	1.3	1.2	1.1	0.9
PFST.200	3.2	2.8	2.5	2.0	1.7	1.6	1.4	1.2	0.9
PFST.350	5.4	4.8	4.3	3.5	3.0	2.8	2.5	2.2	1.7
PFST.420	6.4	5.7	5.1	4.2	3.6	3.3	3.0	2.6	2.1

How To Order

PF ST.120 . S

Product Designator

Style

ST = Axial Leaded "Strap" Component

Hold Current, I_{hold}
120-420 (1.20 Amps - 4.20 Amps)

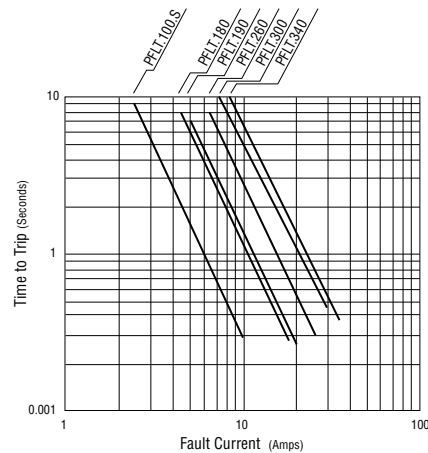
Slotted Lead Option
(.120S and .175S only)

Schurter's resettable fuses cross to many like products already on the market.

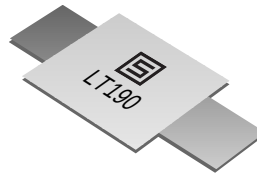
See our online cross list at www.schurterinc.com/cross.htm

PFLT Polymeric PTC Resettable Fuse - Axial Leaded

Typical Time to Trip at 23°C



NEW



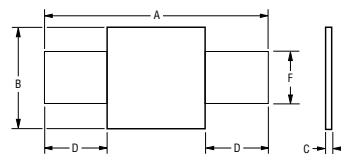
- Fully compatible with current industry standards
- Weldable nickel terminals
- Very low internal resistance
- Applications: Any application that requires extra protection at elevated ambient temperatures, which the 100°C trip temperature provides, including rechargeable battery pack protection, cellular phones, laptop computers

Approvals:

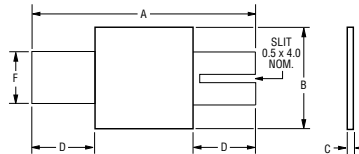
UL pending
CSA pending
TÜV pending

PFLT models offer trip temperatures lower than PFST models for extra protection at elevated temperatures.

Standard Package

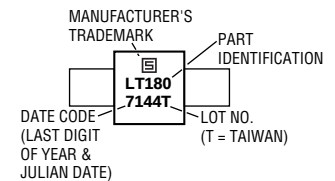


"S" Package



Typical Part Marking

Represents total content. Layout may vary.



Technical Data

Operating/Storage Temperature	-40°C to +85°C	
Maximum Device Surface Temperature in Tripped State	125°C	
Passive 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/-40°C 10 times	±10% typical resistance change
Vibration	MIL-STD-883C, Method 2007.1, Condition A	No change

Test Procedures And Requirements

Test	Test Conditions	Accept/Reject Criteria
Visual/Mech.	Verify dimensions and materials	Per PF physical description
Resistance	In still air @ 23°C	$R_{min} \leq R \leq R_{max}$
Time to Trip	5 times I_{hold} , V_{max} , 23°C	$T \leq \text{max. time to trip (seconds)}$
Hold Current	30 min. at I_{hold}	No trip
Trip Cycle Life	V_{max} , I_{max} , 100 cycles	No arcing or burning
Trip Endurance	V_{max} , 48 hours	No arcing or burning

Product Dimensions

Model	A		B		C		D		F		Package Style
	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	
PFLT.100.S	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1	S
PFLT.180	24.0	26.0	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1	Std.
PFLT.180.S	24.0	26.0	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1	S
PFLT.190	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4	Std.
PFLT.260	24.0	26.0	10.8	11.9	0.6	1.0	5.0	7.0	5.9	6.1	Std.
PFLT.300	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	6.0	6.6	Std.
PFLT.340	24.0	26.0	14.8	15.9	0.6	1.0	4.0	5.0	5.9	6.1	Std.

DIMENSIONS = MM

PFLT Technical Data, continued

Electrical Characteristics

Model	V max. Volts	I max. Amps	I _{hold}	I _{trip}	Initial Resistance		1 Hour (R ₁) Post-Trip Resistance	Max. Time To Trip at 5*I _H	Tripped Power Dissipation
			Amperes at 23°C		Ohms at 23°C		Ohms at 23°C	Seconds at 23°C	Watts at 23°C
			Hold	Trip	Min.	Max.	Max.		
PFLT.100.S	24	100	1.0	2.5	0.070	0.130	0.260	7.0	1.5
PFLT.180	24	100	1.8	3.8	0.040	0.068	0.120	2.9	2.0
PFLT.180.S	24	100	1.8	3.8	0.040	0.068	0.120	2.9	2.0
PFLT.190	24	100	1.9	4.2	0.030	0.057	0.100	3.0	1.9
PFLT.260	24	100	2.6	5.2	0.025	0.042	0.076	5.0	2.3
PFLT.300	24	100	3.0	6.3	0.015	0.031	0.055	4.0	2.0
PFLT.340	24	100	3.4	6.8	0.016	0.027	0.050	5.0	2.7

All models packaged loose. Optional slotted leads (.S) available for 1A and 1.8A ratings.

Thermal Derating Chart - I_{hold} (Amps)

Model	Ambient Operating Temperature								
	-40°C	-20°C	0°C	23°C	40°C	50°C	60°C	70°C	85°C
PFLT.100.S	1.8	1.6	1.4	1.0	0.8	0.7	0.6	0.4	0.2
PFLT.180	3.1	2.6	2.2	1.8	1.3	1.1	0.9	0.6	0.2
PFLT.180.S	3.1	2.6	2.2	1.8	1.3	1.1	0.9	0.6	0.2
PFLT.190	3.3	2.8	2.4	1.9	1.4	1.2	1.1	0.7	0.4
PFLT.260	4.3	3.7	3.1	2.6	1.9	1.6	1.4	1.1	0.6
PFLT.300	5.1	4.4	3.7	3.0	2.3	1.9	1.6	1.2	0.6
PFLT.340	5.5	4.7	4.0	3.4	2.6	2.2	1.9	1.5	0.8

How To Order

PF LT. 100 . S

Product _____
 Designator _____
 Style _____
 LT = Low Temperature Axial Leaded "Strap" Component
 Hold Current, I_{hold} _____
 100-340 (1.00 Amps - 3.40 Amps)
 Slotted Lead Option _____
 (100.s and 180.s only)

Schurter's resettable fuses cross to many like products already on the market.
 See our online cross list at www.schurterinc.com/cross.htm