

## SEMIFUSE® SFP Series PTC Re-settable Fuses

Our SFP series re-settable fuse will provide non-cycling protection against short-circuits in rechargeable batteries and associated circuits. Once tripped, the device remains latched in a high resistance state until the fault is removed.

### Characteristics

Part Number	$I_{hold}$ (A)	$I_{trip}$ (A)	$V_{max}$ (Vdc)	$I_{max}$ (A)	$P_d^{max}$ (W)	Maximum Time to Trip @ 20°C		Resistance @ 20°C		Maximum Dimension (mm)	
						Current (A)	Time (Sec.)	$R_{min}$ (Ω)	$R_{1max}$ (Ω)	A	B
SFP120F	1.20	2.7	15	100	1.2	6.00	5.0	0.085	0.220	22.1	5.20
SFP175F	1.75	3.8	15	100	1.5	8.75	5.0	0.050	0.120	23.1	5.20
SFP200F	2.00	4.4	30	100	1.9	10.00	4.0	0.030	0.100	23.4	11.0
SFP350F	3.50	6.3	30	100	2.5	20.00	3.0	0.017	0.050	31.8	13.5
SFP420F	4.20	7.6	30	100	2.9	20.00	6.0	0.012	0.040	32.4	13.6

**Note:** SFP120F & SFP175F devices available with one slit strap on request.

**Agency Approvals;** UL, CSA and TÜV

### Definitions

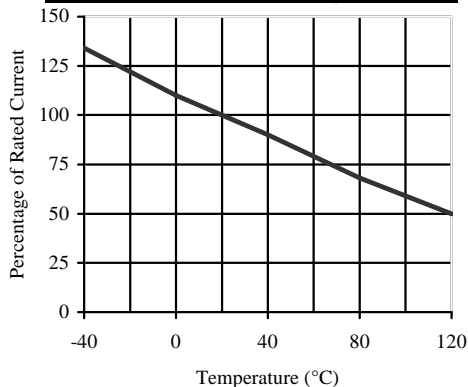
$I_{hold}$  = Hold Current, maximum current PTC will pass without tripping in 20°C still air.

$I_{trip}$  = Trip Current, minimum current at which the PTC will trip in 20°C still air.

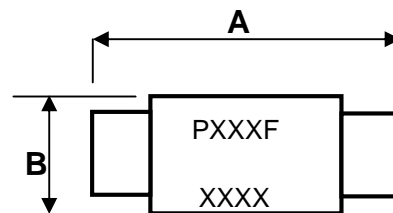
$V_{max}$  = Maximum Voltage PTC can withstand without damage at rated current ( $I_{max}$ )

$I_{max}$  = Maximum fault current PTC can withstand without damage at rated voltage ( $V_{max}$ )

### Thermal derating curve



### Configuration



Dimensions – see above table

**CAUTION:** Operation beyond the specified maximum ratings may result in device damage and cause possible arcing and flame.