

Polymeric PTC



MPSR Series

MERITEK

Applications:

Rechargeable battery packs

Lithium cell and battery packs

Product Features:

Low profile, Solid state

Operation Current: 1.2A~4.2 A

Maximum Voltage: 15V& 30V

Temperature Range: -40°C to 85°C

UL file no. E223037

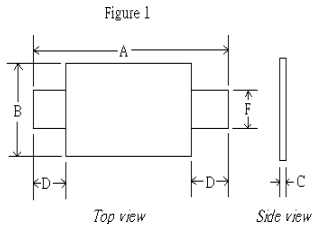


Electrical Characteristics(23°C)

Part Number	Fig	Hold Current I _H , A	Trip Current I _T , A	Rated Voltage V _{MAX} , Vdc	Maximum Current I _{MAX} , A	Typical Power Pd, W	Resistance Tolerance		
							R _{MIN} Ω	R _{MAX} Ω	R _{1MAX} Ω
MPSR120	1	1.2	2.7	15	100	1.2	0.085	0.160	0.220
MPSR175	1	1.75	3.8	15	100	1.5	0.050	0.090	0.120
MPSR200	1	2.0	4.4	30	100	1.9	0.030	0.060	0.100
MPSR350	1	3.5	6.3	30	100	2.5	0.017	0.031	0.050
MPSR420	1	4.2	7.6	30	100	2.9	0.012	0.024	0.040

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.
 I_T=Trip current-minimum current at which the device will always trip at 23°C still air.
 V_{MAX}=Maximum voltage device can withstand without damage at its rated current.
 I_{MAX}= Maximum fault current device can withstand without damage at rated voltage (V max).
 Pd=Maximum power dissipated from device when in the tripped state in 23°C still air environment.
 R_{MIN}=Minimum device resistance at 23°C.
 R_{1MAX}=Maximum device resistance at 23°C, 1 hour after tripping.
 Physical specifications:
 Lead material:0.13mm nominal thickness, quarter-hard nickel.
 Insulating material: Polyester tape.

MPSR Product Dimensions (Millimeters)



Part Number	Fig	A		B		C		D		F	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
MPSR120	1	19.9	22.1	4.9	5.2	0.6	1.0	5.5	7.5	3.9	4.1
MPSR175	1	20.9	23.1	4.9	5.2	0.6	1.0	4.1	5.5	3.9	4.1
MPSR200	1	21.3	23.4	10.2	11.0	0.5	1.1	5.0	7.6	4.8	5.4
MPSR350	1	28.4	31.8	13.0	13.5	0.5	1.1	6.3	8.9	6.0	6.6
MPSR420	1	30.6	32.4	12.9	13.6	0.5	1.1	5.0	7.5	6.0	6.7

Thermal Derating Curve

