

Typically used in customer premise equipment, main distribution frame,
Subscriber line interface card and exchange, etc.

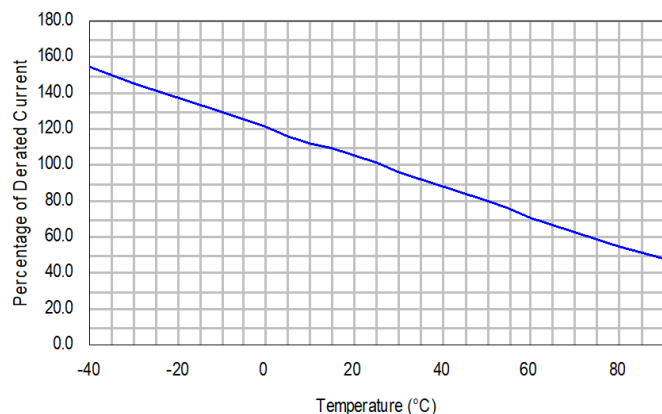
可用于用户设备、主配线架、SLIC及交换机等设备中

Electrical Characteristics at 25°C

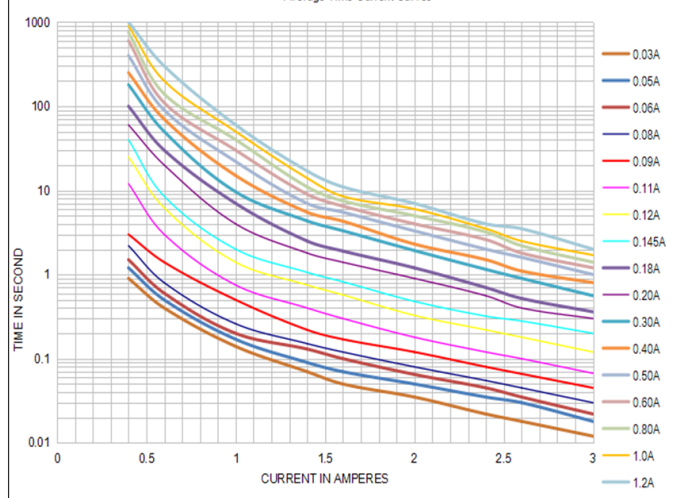
25°C 电气性能

Model	Ihold (A)	Itrip (A)	Vmax Operating (Vdc)	Vmax Interrupt (Vrms)	Imax (A)	Pd Typ. (W)	Maximum Time		Resistance		
							To Trip				
							Current	Time	Rimin.	Rimax.	R1max
							(A)	(Sec)	(Ω)	(Ω)	(Ω)
250R030	0.030	0.060	60	250	3.0	1.0	0.35	4.00	33.0	65.0	97.5
250R050	0.050	0.100	60	250	3.0	1.0	0.35	4.00	33.0	60.0	90.0
250R060	0.060	0.120	60	250	3.0	1.0	0.35	4.00	22.0	32.0	40.0
250R080	0.080	0.160	60	250	3.0	1.00	0.40	3.00	14.0	22.0	28.0
250R090	0.090	0.018	60	250	3.0	1.00	0.35	4.00	10.0	20.0	26.0
250R110	0.110	0.220	60	250	3.0	1.00	1.00	2.00	7.0	11.0	15.0
250R120	0.120	0.240	60	250	3.0	1.00	0.60	0.75	8.0	12.0	15.0
250R145	0.145	0.290	60	250	3.0	1.00	1.00	2.50	3.0	6.5	10.0
250R180	0.180	0.360	60	250	3.0	1.00	1.50	10.0	0.8	2.0	2.50
250R200	0.200	0.400	60	250	3.0	1.00	1.50	10.0	1.5	3.2	4.50
250R300	0.300	0.600	60	250	3.0	1.00	1.50	10.0	1.0	2.4	3.60
250R400	0.400	0.800	60	250	3.0	3.00	2.00	10.0	0.75	1.10	1.40
250R500	0.500	1.000	60	250	3.0	3.00	2.50	10.0	0.45	0.80	1.20
250R600	0.600	1.200	60	250	3.0	3.00	3.00	10.0	0.50	0.75	1.00
250R750	0.750	1.500	60	250	7.5	2.6	2.25	30.0	0.55	1.1	1.30
250R800	0.800	1.600	60	250	3.0	3.50	4.00	8.0	0.45	0.65	1.00
250R1000	1.000	2.000	60	250	3.0	4.00	5.00	10.0	0.28	0.51	0.70
250R1200	1.200	2.400	60	250	10.0	5.00	6.00	10.0	0.25	0.30	0.50

Derating Curves for D250 Series



Average Time Current Curves



R250

Polymer PTC Device Radial leaded resettable fuse



Environmental Characteristics

环境特性

Operating/Storage Temperature

-40°C to +85°C

环境/储存

Storage Note: $T_{max}=+40^{\circ}\text{C}$, $RH_{max}=70\%$. Units might not meet the nominal value if storage conditions are over limit.

注：存储条件最高温度+40°C，最大RH70%；如果超过存储条件，器件可能无法满足给定值

Maximum Device Surface Temperature

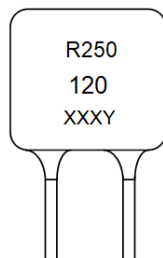
125°C

最大表面温度

Test/测试项目	Conditions/测试条件
Passive aging 高温老化	85°C, 1000 hours
Humidity aging 恒定湿热老化	85°C, 85%RH, 1000 hours
Thermal shock 热冲击	85°C, -40°C (10 times)
Solvent proof 耐溶剂特性	MIL-STD-202, Method 215F
Insulating material 绝缘材料	Cured, flame-retardant epoxy polymer; meets UL 94v-0 固化阻燃环氧树脂, 符合 UL 94V-0

Part Numbering System:

型号说明



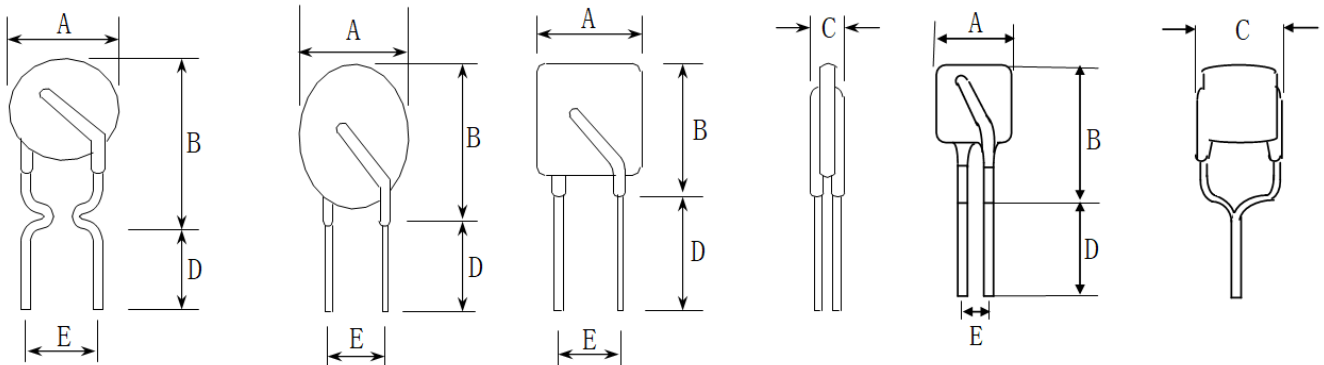
R=Trademark

250=Radial type 250V

120=0.12A hold current

XXX=日期

Y=代码



R250

Polymer PTC Device Radial leaded resettable fuse



Product Dimensions(mm/inch)

尺寸 (毫米/英寸)

Model	A _{max}	B _{max}	C _{max}	D _{min}	E _{typ}	Style	Lead Dia.	Lead Mat.
250R030	5.8	9.9	3.8	4.7	5.1	Kink		Sn/Cu
250R050	5.8	9.9	3.8	4.7	5.1	Kink		Sn/Cu
250R060	5.8	9.9	3.8	4.7	5.1	Kink		Sn/Cu
250R080	5.8	9.9	3.8	4.7	5.1	Kink		Sn/Cu
250R090	5.8	9.9	3.8	4.7	5.1	Kink		Sn/Cu
250R110	6.5	11.0	3.8	4.7	5.1	Straight		Sn/Cu
250R120	7.1	13.0	4.2	4.7	5.1	Straight		Sn/Cu
250R145	7.1	11.0	3.8	4.7	5.1	Straight		Sn/Cu
250R180	9.0	12.6	3.5	4.7	5.1	Kink		Sn/Cu
250R200	9.0	14.6	3.5	4.7	5.1	Kink		Sn/Cu
250R300	9.0	12.6	3.5	4.7	5.1	Kink		Sn/Cu
250R400	9.5	15.2	3.5	4.7	5.1	Kink		Sn/Cu
250R500	11.0	15.8	3.5	4.7	5.1	Straight		Sn/Cu
250R600	11.0	15.8	3.5	4.7	5.1	Straight		Sn/Cu
250R750	14.5	21.7	4.6	7.6	5.1	Straight	0.8	Sn/Cu
250R800	11.0	15.8	3.5	4.7	5.1	Straight		Sn/Cu
250R1000	14.0	19.1	3.5	4.7	5.1	Straight		Sn/Cu
250R1200	14.0	19.1	3.5	4.7	5.1	Straight		Sn/Cu

Thermal Derating-Ihold(Amps)

维持电流随温度衰减特性 (安培)

Model	Ambient Operating Temperature								
	-40℃	-20℃	0℃	25℃	40℃	50℃	60℃	70℃	85℃
250R030	0.047	0.04	0.036	0.030	0.024	0.022	0.019	0.016	0.012
250R050	0.079	0.69	0.060	0.050	0.041	0.036	0.032	0.027	0.020
250R060	0.101	0.089	0.077	0.060	0.052	0.047	0.041	0.035	0.026
250R080	0.124	0.110	0.095	0.080	0.066	0.059	0.051	0.044	0.033
250R090	0.140	0.124	0.107	0.090	0.074	0.066	0.057	0.050	0.037
250R110	0.171	0.151	0.131	0.110	0.091	0.081	0.071	0.061	0.046
250R120	0.186	0.165	0.143	0.120	0.099	0.088	0.077	0.066	0.050
250R145	0.225	0.199	0.172	0.145	0.119	0.106	0.093	0.080	0.060
250R180	0.279	0.247	0.213	0.180	0.147	0.131	0.115	0.099	0.074
250R200	0.295	0.267	0.24	0.20	0.175	0.160	0.141	0.1266	0.094
250R300	0.44	0.400	0.360	0.30	0.260	0.240	0.210	0.190	0.140
250R400	0.59	0.53	0.48	0.40	0.35	0.32	0.28	0.250	0.200
250R500	0.73	0.66	0.60	0.50	0.44	0.40	0.360	0.31	0.24
250R600	0.87	0.80	0.71	0.60	0.52	0.47	0.42	0.37	0.28
250R750	1.16	1.03	0.89	0.75	0.62	0.55	0.48	0.41	0.31
250R800	1.17	0.108	0.97	0.80	0.700	0.64	0.560	0.52	0.37
250R1000	1.47	1.33	1.21	1.00	0.87	0.80	0.70	0.62	0.46
250R1200	1.76	1.60	1.45	1.20	1.05	0.95	0.85	0.76	0.56