

PTC OVER CURRENT PROTECTORS

Description

The PTC over-current protector is connected in series with the load which is to be protected. During normal operating conditions, the PTC remains in its low resistance state resulting in negligible attenuation to current flow. When a short circuit or over-current condition occurs, the PTC will switch into its high resistance state thereby limiting the current flow in the circuit to a point well below the normal operating level. When the fault condition is removed, the PTC will return to its low resistance state allowing the current flow to recover to its normal level. Ketema Rodan produces over-current protectors for a wide range of load protection applications.



Typical Applications

- Telephone Line Fault Protection
- Transformer Protection
- FHP Motor Protection
- Transistor Protection
- Speaker Protection

Features

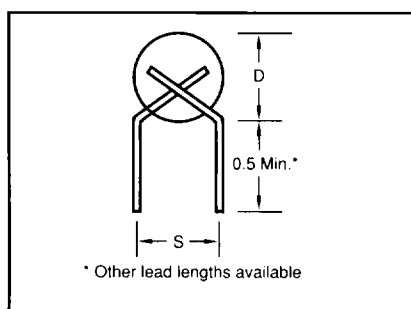
- Fast Switching
- No Electrical Noise
- Virtually Unlimited Life
- Self Resetting
- No Contacts
- Automatic Operation
- Efficient

Options Available

- Encapsulation
- Special Lead Configurations
- Non-Standard Values

Over-Current Protectors Specifications

Part Number	Base Resistance		Maximum Operating Voltage V_{max}	Maximum* Continuous Current (Amps)	Minimum** Switching Current (Amps)	Switch Temp. (Ref.) (°C)	Heat Capacity (Watt-Sec./°C)	Dissipation Constant (mW/°C)	Reference Dimensions		
	(Ohms)	Tolerance (±)							D Max. Dia. (In.)	Lead Dia. (In.)	S Ref. (In.)
SP5504D-1R0-120	1	20%	15	0.60	1.30	120	.48	13	0.60	0.032	0.3
SP5004D-2R0-120	2	20%	25	0.44	.900	120	.39	12	0.55	0.032	0.3
SP4004D-3R3-120	3.3	30%	25	.300	.690	120	.25	10	0.45	0.025	0.3
SP6709D-4R7-110	4.7	20%	132	.290	.650	110	1.59	16	0.70	0.032	0.3
SP4004D-5R0-110	5	20%	25	.220	.500	110	.25	10	0.45	0.025	0.3
SP3505D-7R5-120	7.5	30%	50	.180	.400	120	.24	8	0.40	0.020	0.2
SP5510D-100-110	10	30%	132	.170	.430	110	1.19	13	0.60	0.025	0.3
SP3505D-100-120	10	30%	50	.150	.350	120	.24	8	0.40	0.020	0.2
SP2505D-200-120	20	30%	50	.095	.215	120	.12	6	0.30	0.020	0.2
SP3510D-300-110	30	30%	132	.075	.190	110	.48	8	0.40	0.020	0.2
SP3010D-500-110	50	30%	132	.055	.140	110	.35	7	0.35	0.020	0.2
SP3010D-101-110	100	30%	132	.040	.100	110	.35	7	0.35	0.020	0.2
SP2008D-251-120	250	30%	150	.028	.070	120	.13	7	0.25	0.020	0.2
SP2010D-501-120	500	30%	250	.020	.050	120	.16	7	0.25	0.020	0.2
SP2010D-102-110	1000	30%	300	.012	.032	110	.16	7	0.25	0.020	0.2
SP2012D-152-110	1500	30%	350	.010	.026	110	.19	7	0.25	0.020	0.2



*Maximum Continuous Current (I_{cc}) — The maximum amount of current, expressed in AMPS, the PTC must be capable of conducting without switching into its high resistance state.

**Minimum Switching Current (I_s) — The minimum amount of current, expressed in AMPS, required to switch the PTC into its high resistance state.

Note — The values for minimum switching current and maximum continuous current are for reference only. Mounting method and environmental conditions can affect these parameters. Please contact Ketema Rodan for specific applications engineering assistance.