

### Features

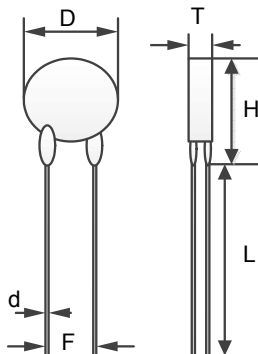
- Small size, high power
- Fast response times
- Great surge current capability
- Large material constant (B value), small residual resistance
- High reliability

### Application

- UPS and switching power supplies
- Electric heaters
- Energy saving lamps
- Electronic ballast
- Color display tube
- Lighting filament protection



### Structure



### Dimensions Table

Dimensions Code	Type、Dimensions (mm)							
	D-5	D-7	D-9	D-11	D-13	D-15	D-20	D-25
Dmax	7.0	9.0	11.0	13.0	15.5	17.5	22.5	27.5
Tmax	5.0	5.0	5.5	5.5	6.0	6.0	7	8.0
Lmin	25	25	25	25	25	25	25	25
d±0.05	0.6/0.45	0.6	0.8/0.6	0.8	0.8	0.8	1.0	1.0
F±1	5.0/2.5	5.0	7.5/5.0	7.5/5.0	7.5	10/7.5	10/7.5	10

## Electrical Specifications

Type	Zero Power Resistance ( $\Omega$ ) $\pm 20\%$	I <sub>max</sub> (A)	Approx. R of Max. Current ( $\Omega$ )	Thermal Dissipation Constant (mW/°C)	Thermal Time constant $\tau$ (s)	Operation Temperature (°C)
MF72-5D5	5	1	0.353	6	20	-55~+200
MF72-10D5	10	0.7	0.771	6	20	
MF72-60D5	60	0.5	1.878	6	18	
MF72-200D5	200	0.1	6.259	6	18	
MF72-5D7	5	2	0.283	10	30	
MF72-8D7	8	1	0.539	9	28	
MF72-10D7	10	1	0.616	9	27	
MF72-12D7	12	1	0.816	9	27	
MF72-16D7	16	0.7	1.003	9	27	
MF72-22D7	22	0.6	1.108	9	27	
MF72-33D7	33	0.5	1.485	10	28	
MF72-200D7	200	0.2	6.233	11	28	
MF72-3D9	3	4	0.12	11	35	
MF72-4D9	4	3	0.19	11	35	
MF72-5D9	5	3	0.21	11	34	
MF72-6D9	6	2	0.315	11	34	
MF72-8D9	8	2	0.4	11	32	
MF72-10D9	10	2	0.458	11	32	
MF72-12D9	12	1	0.652	11	32	
MF72-16D9	16	1	0.802	11	31	
MF72-20D9	20	1	0.864	11	30	
MF72-22D9	22	1	0.95	11	30	
MF72-30D9	30	1	1.022	11	30	
MF72-33D9	33	1	1.124	11	30	
MF72-50D9	50	1	1.252	11	30	
MF72-60D9	60	0.8	1.502	11	30	
MF72-80D9	80	0.8	2.01	11	30	
MF72-120D9	120	0.8	3.015	11	30	
MF72-200D9	200	0.5	5.007	11	32	
MF72-400D9	400	0.2	9.852	11	32	
MF72-2.5D11	2.5	5	0.095	13	43	
MF72-3D11	3	5	0.1	13	43	
MF72-4D11	4	4	0.15	13	44	
MF72-5D11	5	4	0.156	13	45	
MF72-6D11	6	3	0.24	13	45	
MF72-8D11	8	3	0.255	14	47	
MF72-10D11	10	3	0.275	14	47	
MF72-12D11	12	2	0.462	14	48	
MF72-16D11	16	2	0.47	14	50	
MF72-20D11	20	2	0.512	15	52	
MF72-22D11	22	2	0.563	15	52	
MF72-30D11	30	1.5	0.667	15	52	
MF72-33D11	33	1.5	0.734	15	52	

MF72-50D11	50	1.5	1.021	15	52
MF72-60D11	60	1.5	1.215	15	52
MF72-80D11	80	1.2	1.656	15	52
MF72-1.3D13	1.3	7	0.062	13	60
MF72-1.5D13	1.5	7	0.073	13	60
MF72-2.5D13	2.5	6	0.088	13	60
MF72-3D13	3	6	0.092	14	60
MF72-4D13	4	5	0.12	15	67
MF72-5D13	5	5	0.125	15	68
MF72-6D13	6	4	0.17	15	65
MF72-7D13	7	4	0.188	15	65
MF72-8D13	8	4	0.194	15	60
MF72-10D13	10	4	0.206	15	65
MF72-12D13	12	3	0.316	16	65
MF72-15D13	15	3	0.335	16	60
MF72-16D13	16	3	0.338	16	60
MF72-20D13	20	3	0.372	16	65
MF72-30D13	30	2.5	0.517	16	65
MF72-47D13	47	2	0.81	17	65
MF72-120D13	120	1.5	2.124	16	65
MF72-1.3D15	1.3	8	0.048	18	68
MF72-1.5D15	1.5	8	0.052	19	69
MF72-3D15	3	7	0.075	18	76
MF72-5D15	5	6	0.112	20	76
MF72-6D15	6	5	0.155	20	80
MF72-7D15	7	5	0.173	20	80
MF72-8D15	9	5	0.178	20	80
MF72-10D15	10	5	0.18	20	75
MF72-12D15	12	4	0.25	20	75
MF72-15D15	15	4	0.268	21	85
MF72-16D15	16	4	0.276	21	70
MF72-20D15	20	4	0.288	17	86
MF72-30D15	30	3.5	0.438	18	75
MF72-47D15	47	3	0.68	21	86
MF72-120D15	120	2.5	1.652	22	87
MF72-0.7D20	0.7	12	0.018	25	112
MF72-1.3D20	1.3	9	0.037	24	113
MF72-3D20	3	8	0.055	24	113
MF72-5D20	5	7	0.087	23	112
MF72-6D20	6	6	0.113	25	114
MF72-8D20	8	6	0.142	25	115
MF72-10D20	10	6	0.162	24	113
MF72-12D20	12	5	0.195	24	114
MF72-16D20	16	5	0.212	25	113
MF72-0.7D25	0.7	13	0.014	30	151
MF72-1.5D25	1.5	10	0.027	30	152
MF72-3D25	3	9	0.044	32	150
MF72-5D25	5	8	0.07	32	151
MF72-8D25	8	7	0.114	33	151

MF72-10D25	10	7	0.13	32	150	
MF72-12D25	12	6	0.156	32	150	
MF72-16D25	16	6	0.16	35	152	

## Electrical Characteristics

Characteristics	Test Methods
<b>Zero Power Resistance at 25°C</b>	Resistance shall be measured at DC current applied when the self heat generation does not occur at room ambient (25.0±0.2°C)
<b>B Value</b>	After the resistance at 25°C and 85°C respectively are measured, the B Value is calculated by the following equation: $B = \ln(R_{25}/R_{85}) / (1/298.15 - 1/358.15)$ R25= Resistance at 25.0±0.2°C R85= Resistance at 85.0±0.2°C
<b>Thermal Dissipation Constant</b>	Equivalent to the required power to rise temperature of the thermistor up to 1°C in the air and without cooling of airflow. the unit of the constant is mw/°C
<b>Maximum allowable steady-state current</b>	Maximum allowable steady-state DC current applied at the specified temperature without cooling of airflow
<b>Thermal Time constant</b>	The period of time when the temperature of the specimens is (1-1/e) times the temperature difference shall be measured when the ambient temperature is changed.(e:2.71828)
<b>Voltage withstanding (Between Terminals and coating)</b>	An AC Voltage of 1000V shall be applied. Between the terminals and the insulating coating for one minute at room ambient.
<b>Insulation Resistance (Between Terminals and coating)</b>	Insulation resistance between terminals and the insulating coating shall be measured at 1000Vdc with one minute electrification, and at room ambient.

## CONTACT INFORMATION

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