

Lo Rho PPTC

Low Rho FSMD1812 Series



Application

All high-density boards

Product Features

Small surface mountable, Solid state, Faster time to trip than standard SMD devices, Lower resistance than standard SMD devices



Operation Current

1.40A~6.00A

Maximum Voltage

6V_{DC}



Temperature Range

-40°C to 85°C

Agency Recognition

AGENCY	AGENCY FILE NUMBER
	UL(E211981)
	C-UL(E211981)
	TÜV (R50090556)



SVHC Compliant

Electrical Characteristics (23°C)

Part Number	Hold Current	Trip Current	Rated Voltage	Max. Current	Typ. Power	Max. Time to trip		Resistance	
						Current	Time	R _{MIN}	R _{1MAX}
						I _H , A	I _T , A	V _{MAX} , V _{DC}	I _{MAX} , A
FSMD140RZ	1.40	3.60	6	100	1.0	8.0	3.00	0.0100	0.0350
FSMD190RZ	1.90	4.90	6	100	1.0	8.0	5.00	0.0030	0.0250
FSMD270RZ	2.70	6.20	6	100	1.0	13.5	3.00	0.0030	0.0230
FSMD300RZ	3.00	7.00	6	100	1.0	15.0	2.00	0.0030	0.0220
FSMD370RZ	3.70	9.10	6	100	1.0	18.5	2.00	0.0030	0.0180
FSMD500RZ	5.00	10.00	6	100	1.0	25.0	2.00	0.0015	0.0140
FSMD600RZ	6.00	12.00	6	100	1.0	30.0	3.00	0.0010	0.0100

Thermal Derating for PPTC Device at Various Ambient Temperatures

TEMPERATURE	-40°C	-20°C	0°C	23°C	30°C	40°C	50°C	60°C	70°C	85°C
DERATING %	145%	130%	115%	100%	92%	84%	77%	69%	61%	50%

Typical Time-To-Trip at 23°C

- A = FSMD140RZ
- B = FSMD190RZ
- C = FSMD270RZ
- D = FSMD300RZ
- E = FSMD370RZ
- F = FSMD500RZ
- G = FSMD600RZ

