

■ **FEATURES**

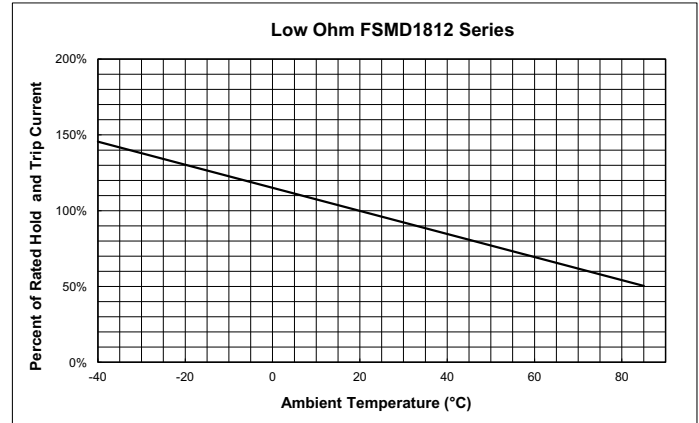
- Applications : All high-density boards
- Product Features : Faster time to trip and Lower resistnace than standard SMD devices
- Operation Current: 1.40A ~ 6.00A
- Maximum Voltage: 6Vdc
- Temperature Range: -40°C to 85°C

■ **AGENCY RECOGNITION**

Made for RFE by UL shop Fuzetec

- UL (E211981)
- C-UL (E211981)
- TÜV (R50090556)

■ **THERMAL DERATING CURVE**



■ **ELECTRICAL CHARACTERISTICS (23°C)**

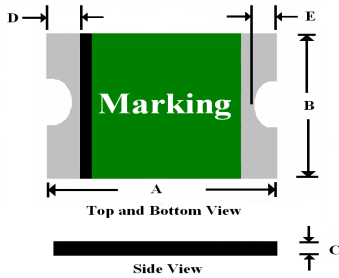
Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Max Time to Trip		Resistance	
						Current	Time	R min	R1 max
	I _H , A	I _T , A	V _{MAX} , Vdc	I _{MAX} , A	P _d , W			Ohms	Ohms
FSMD140-1812RZ	1.40	3.60	6	100	1.0	8.0	3.00	0.0100	0.0350
FSMD190-1812RZ	1.90	4.90	6	100	1.0	8.0	5.00	0.0030	0.0250
FSMD270-1812RZ	2.70	6.20	6	100	1.0	13.5	3.00	0.0030	0.0230
FSMD300-1812RZ	3.00	7.00	6	100	1.0	15.0	2.00	0.0030	0.0220
FSMD370-1812RZ	3.70	9.10	6	100	1.0	18.5	2.00	0.0030	0.0180
FSMD500-1812RZ	5.00	10.00	6	100	1.0	25.0	2.00	0.0015	0.0140
FSMD600-1812RZ	6.00	12.00	6	100	1.0	30.0	3.00	0.0010	0.1000

I_H=Hold current-maximum current at which the device will not trip at 23°C still air.
 I_T=Trip current-maximum 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}).
 P_d=Typical 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 measured 1 hour after tripping or reflow soldering of 260°C for 20 second.

Termination pad characteristics
 Termination pad materials: Pure Tin

NOTE: All Specifications subject to change without notice.

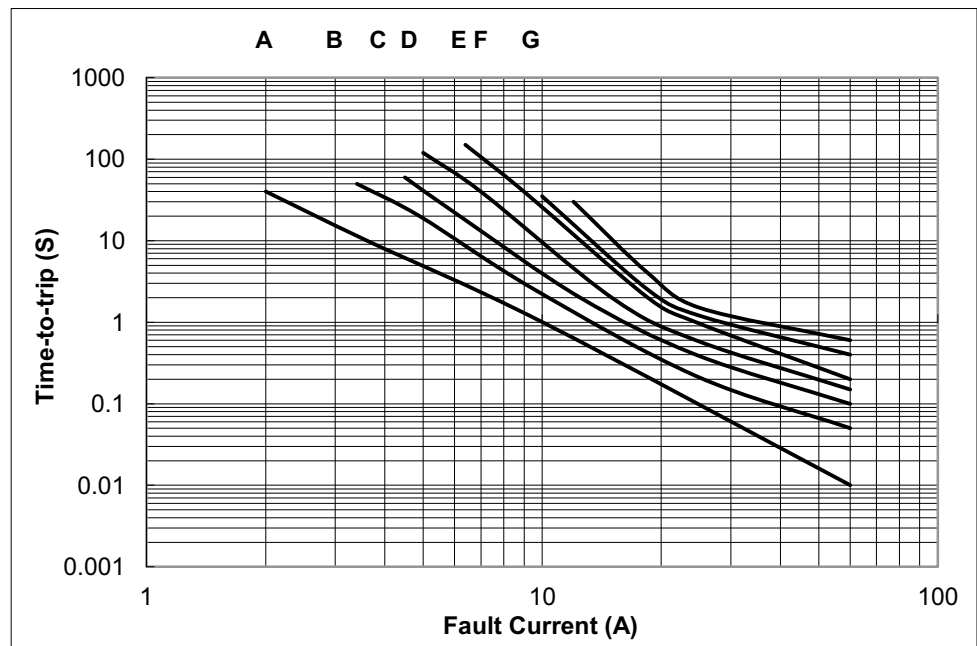
DIMENSIONS (mm)



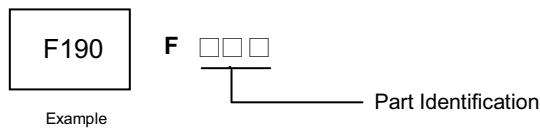
Part Number	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FSMD140-1812RZ	4.37	4.73	3.07	3.41	0.30	0.70	0.25	0.95	0.25	0.65
FSMD190-1812RZ	4.37	4.73	3.07	3.41	0.30	0.70	0.25	0.95	0.25	0.65
FSMD270-1812RZ	4.37	4.73	3.07	3.41	0.30	0.70	0.25	0.95	0.25	0.65
FSMD300-1812RZ	4.37	4.73	3.07	3.41	0.30	0.70	0.25	0.95	0.25	0.65
FSMD370-1812RZ	4.37	4.73	3.07	3.41	0.30	0.70	0.25	0.95	0.25	0.65
FSMD500-1812RZ	4.37	4.73	3.07	3.41	0.30	0.70	0.25	0.95	0.25	0.65
FSMD600-1812RZ	4.37	4.73	3.07	3.41	0.30	1.00	0.25	0.95	0.25	0.65

TYPICAL TIME-TO-TRIP AT 23°C

- A = FSMD140-1812RZ
- B = FSMD190-1812RZ
- C = FSMD270-1812RZ
- D = FSMD300-1812RZ
- E = FSMD370-1812RZ
- F = FSMD500-1812RZ
- G = FSMD600-1812RZ



MARKING SYSTEM



- F14Z = FSMD140-1812RZ
- F190 = FSMD190-1812RZ
- F27Z = FSMD270-1812RZ
- F30Z = FSMD300-1812RZ
- F37Z = FSMD370-1812RZ
- F50Z = FSMD500-1812RZ
- F60Z = FSMD600-1812RZ

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