

### FEATURES

- Applications : All high-density boards
- Product Features : Faster time to trip and Lower resistnace than standard SMD devices
- Operation Current: 0.10A ~ 3A
- Maximum Voltage: 6V~60Vdc
- Temperature Range: -40°C to 85°C

### AGENCY RECOGNITION

Made for RFE by UL shop Fuzetec

- UL (E211981)
- C-UL (E211981)
- TÜV (R50004084/R50090556)

### ELECTRICAL CHARACTERISTICS (23°C)

Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Max. Time to Trip		Resistance	
	I <sub>H</sub> , A	I <sub>T</sub> , A	V <sub>MAX</sub> , Vdc	I <sub>MAX</sub> , A	P <sub>d</sub> , W	Current	Time	R min	R1 max
	I <sub>H</sub> , A	I <sub>T</sub> , A	V <sub>MAX</sub> , Vdc	I <sub>MAX</sub> , A	P <sub>d</sub> , W	A	Sec	Ohms	Ohms
FSMD010-1812R	0.10	0.30	60	100	0.8	8	0.02	1.600	15.00
FSMD014-1812R	0.14	0.30	60	100	0.8	8	0.008	1.200	6.50
FSMD020-1812R	0.20	0.40	30	100	0.8	8	0.02	0.800	5.00
FSMD020-60-1812R	0.20	0.40	60	100	0.8	8	0.02	0.800	5.00
FSMD030-1812R	0.30	0.60	30	100	0.8	8	0.10	0.200	1.75
FSMD035-1812R	0.35	0.70	16	100	0.8	8	0.10	0.320	1.50
FSMD035-30-1812R	0.35	0.70	30	100	0.8	8	0.10	0.320	1.50
FSMD050-1812R	0.50	1.00	16	100	0.8	8	0.15	0.150	1.00
FSMD050-30-1812R	0.50	1.00	30	100	0.8	8	0.15	0.150	1.00
FSMD075-1812R	0.75	1.50	16	100	0.8	8	0.20	0.110	0.45
FSMD075-24-1812R	0.75	1.50	24	100	1.0	8	0.20	0.110	0.29
FSMD075-33-1812R	0.75	1.50	33	100	1.0	8	0.20	0.110	0.40
FSMD110-1812R	1.10	2.20	8	100	0.8	8	0.30	0.040	0.210
FSMD110-16-1812R	1.10	2.20	16	100	0.8	8	0.50	0.060	0.180
FSMD110-24-1812R	1.10	2.20	24	100	1.0	8	0.50	0.060	0.200
FSMD110-33-1812R	1.10	2.20	33	100	0.8	8	0.50	0.060	0.200
FSMD125-1812R	1.25	2.50	6	100	0.8	8	0.40	0.050	0.140
FSMD125-16-1812R	1.25	2.50	16	100	0.8	8	0.40	0.050	0.140
FSMD150-1812R	1.50	3.00	8	100	0.8	8	0.50	0.040	0.110
FSMD150-12-1812R	1.50	3.00	12	100	1.0	8	0.50	0.040	0.110
FSMD150-24-1812R	1.50	3.00	24	100	1.0	8	1.50	0.040	0.120
FSMD160-1812R	1.60	3.20	8	100	0.8	8	0.50	0.030	0.100
FSMD160-12-1812R	1.60	3.20	12	100	1.0	8	1.00	0.030	0.100
FSMD160-16-1812R	1.60	3.20	16	100	1.0	8	1.00	0.030	0.100
FSMD200-1812R	2.00	3.50	8	100	1.0	8	2.00	0.020	0.070
FSMD200-16-1812R	2.00	3.50	16	100	1.0	8	5.00	0.020	0.085
FSMD260-1812R	2.60	5.00	8	100	1.0	8	2.00	0.015	0.047
FSMD260-13-1812R	2.60	5.00	13.2	100	1.3	8	5.00	0.015	0.050
FSMD260-16-1812R	2.60	5.00	16	100	1.3	8	5.00	0.015	0.050
FSMD300-1812R	3.00	5.00	6	100	1.0	8	4.00	0.012	0.040

I<sub>H</sub>=Hold current-maximum current at which the device will not trip at 23°C still air.

I<sub>T</sub>=Trip current-maximum current at which the device will always trip at 23°C still air.

V<sub>MAX</sub>=Maximum voltage device can withstand without damage at its rated current.

I<sub>MAX</sub>=Maximum fault current device can withstand without damage at rated voltage (V<sub>MAX</sub>).

P<sub>d</sub>=Typical power dissipated from device when in the tripped state in 23°C still air environment.

R<sub>MIN</sub>=Minimum device resistance at 23°C.

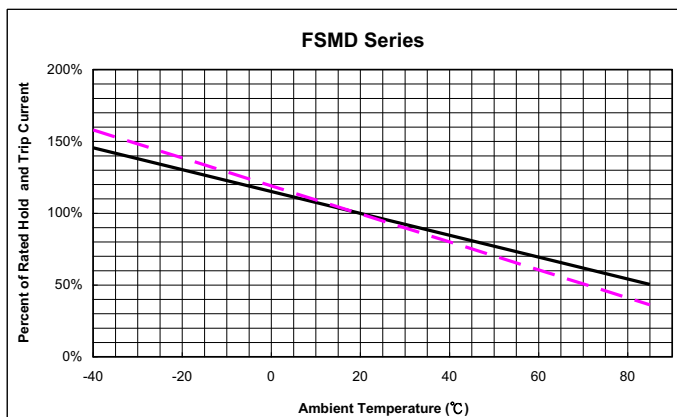
R<sub>1MAX</sub>=Maximum device resistance at 23°C measured 1 hour after tripping or reflow soldering of 260°C for 20 second.

Termination pad characteristics

Termination pad materials: Pure Tin

**NOTE: All Specifications subject to change without notice.**

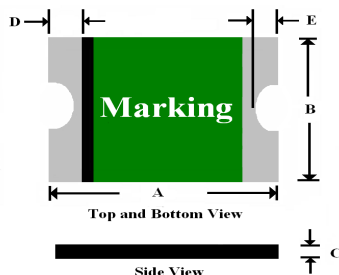
**THERMAL DERATING CURVE**



**A=** FSMD075-R, 075-24R, 075-33R,  
110-R, 110-16-R, 110-24R,  
110-33R, 125-R, 125-16R,  
150-R, 150-12R, 150-24R,  
160-R, 160-12R, 160-16R, 200R,  
200-16R, 260R, 260-13R,  
260-16R, 300R

**B=** FSMD010-R, 014-R, 020-R,  
020-60-R, 030-R,  
035-R, 035-30-R, 050-R,  
050-30-R

**DIMENSIONS (mm)**

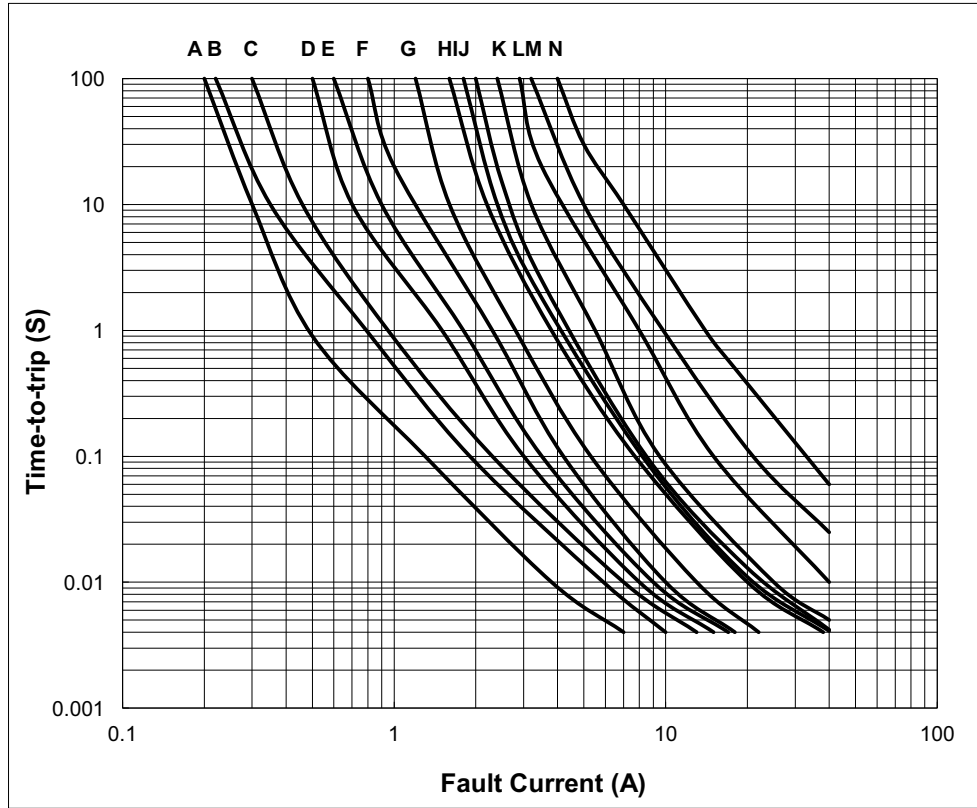


Part Number	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FSMD010-1812R	4.37	4.73	3.07	3.41	0.60	0.90	0.30	0.95	0.25	0.65
FSMD014-1812R	4.37	4.73	3.07	3.41	0.60	0.90	0.30	0.95	0.25	0.65
FSMD020-1812R	4.37	4.73	3.07	3.41	0.60	0.90	0.30	0.95	0.25	0.65
FSMD020-60-1812R	4.37	4.73	3.07	3.41	0.60	0.90	0.30	0.95	0.25	0.65
FSMD030-1812R	4.37	4.73	3.07	3.41	0.40	0.70	0.30	0.95	0.25	0.65
FSMD035-1812R	4.37	4.73	3.07	3.41	0.40	0.70	0.30	0.95	0.25	0.65
FSMD035-30-1812R	4.37	4.73	3.07	3.41	0.40	0.70	0.30	0.95	0.25	0.65
FSMD050-1812R	4.37	4.73	3.07	3.41	0.35	0.65	0.30	0.95	0.25	0.65
FSMD050-30-1812R	4.37	4.73	3.07	3.41	0.45	0.75	0.30	0.95	0.25	0.65
FSMD075-1812R	4.37	4.73	3.07	3.41	0.35	0.65	0.30	0.95	0.25	0.65
FSMD075-24-1812R	4.37	4.73	3.07	3.41	0.80	1.55	0.25	0.95	0.25	0.65
FSMD075-33-1812R	4.37	4.73	3.07	3.41	0.80	1.55	0.25	0.95	0.25	0.65
FSMD110-1812R	4.37	4.73	3.07	3.41	0.25	0.55	0.30	0.95	0.25	0.65
FSMD110-16-1812R	4.37	4.73	3.07	3.41	0.25	0.90	0.30	0.95	0.25	0.65
FSMD110-24-1812R	4.37	4.73	3.07	3.41	0.80	1.30	0.25	0.95	0.25	0.65
FSMD110-33-1812R	4.37	4.73	3.07	3.41	0.80	1.30	0.25	0.95	0.25	0.65
FSMD125-1812R	4.37	4.73	3.07	3.41	0.25	0.55	0.30	0.95	0.25	0.65
FSMD125-16-1812R	4.37	4.73	3.07	3.41	0.50	1.00	0.30	0.95	0.25	0.65
FSMD150-1812R	4.37	4.73	3.07	3.41	0.25	0.55	0.30	0.95	0.25	0.65
FSMD150-12-1812R	4.37	4.73	3.07	3.41	0.60	1.10	0.25	0.95	0.25	0.65
FSMD150-24-1812R	4.37	4.73	3.07	3.41	0.60	1.55	0.25	0.95	0.25	0.65
FSMD160-1812R	4.37	4.73	3.07	3.41	0.25	0.90	0.30	0.95	0.25	0.65
FSMD160-12-1812R	4.37	4.73	3.07	3.41	0.60	1.35	0.25	0.95	0.25	0.65
FSMD160-16-1812R	4.37	4.73	3.07	3.41	0.60	1.35	0.25	0.95	0.25	0.65
FSMD200-1812R	4.37	4.73	3.07	3.41	0.55	1.20	0.25	0.95	0.25	0.65
FSMD200-16-1812R	4.37	4.73	3.07	3.41	0.60	1.55	0.25	0.95	0.25	0.65
FSMD260-1812R	4.37	4.73	3.07	3.41	0.55	1.20	0.25	0.95	0.25	0.65
FSMD260-13-1812R	4.37	4.73	3.07	3.41	0.80	1.55	0.25	0.95	0.25	0.65
FSMD260-16-1812R	4.37	4.73	3.07	3.41	0.80	1.55	0.25	0.95	0.25	0.65
FSMD300-1812R	4.37	4.73	3.07	3.41	0.80	1.55	0.25	0.95	0.25	0.65

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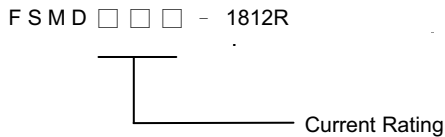
■ **TYPICAL TIME-TO-TRIP AT 23°C**

- A = FSMD010-R
- B = FSMD014-R
- C = FSMD020-R / 020-60-R
- D = FSMD030-R
- E = FSMD035-R / 035-30-R
- F = FSMD050-R / 050-30-R
- G = FSMD075-R / 075-24R / 075-33R
- H = FSMD110-R / 110-16-R / 110-24R / 110-33R
- I = FSMD125-R / 125-16R
- J = FSMD150-R / 150-12R / 150-24R
- K = FSMD160-R / 160-12R / 160-16R
- L = FSMD200R / 200-16R
- M = FSMD260R / 260-13R / 260-16R
- N = FSMD300R

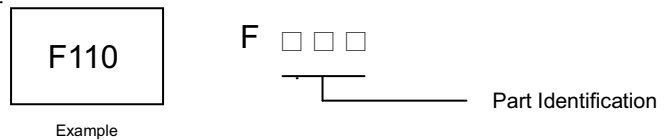


■ **PART NUMBER SYSTEM & MARKING SYSTEM**

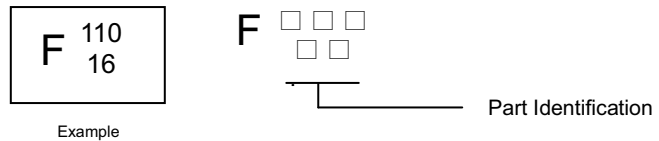
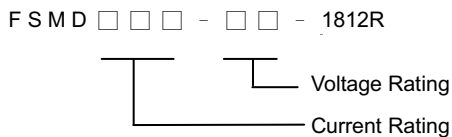
**Part Numbering System**



**Part Marking System**



OR



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