

**FEATURES**

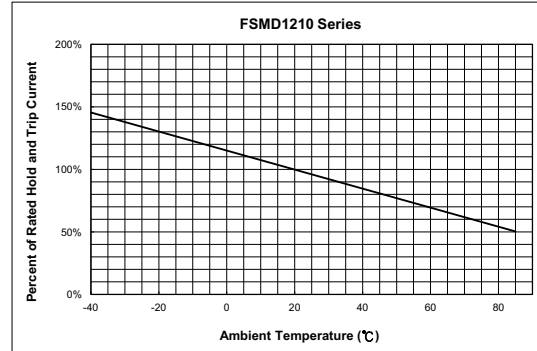
- Applications : All high-density boards
- Product Features : Faster time to trip and Lower resistnace than standard SMD devices
- Operation Current: 0.05A ~ 2A
- Maximum Voltage: 6V~60Vdc
- Temperature Range: -40°C to 85°C

**AGENCY RECOGNITION**

Made for RFE by UL shop Fuzetec

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

**THERMAL DERATING CURVE**



**ELECTRICAL CHARACTERISTICS (23°C)**

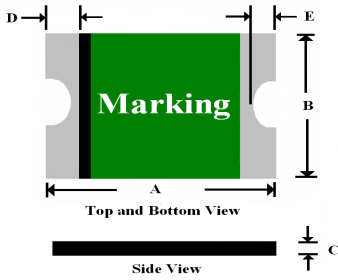
Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Max. Time to Trip		Resistance	
						Current	Time	R min	R1 max
						A	Sec	Ohms	Ohms
FSMD005-1210R	0.05	0.15	60	100	0.6	0.25	1.50	3.600	50.00
FSMD010-1210R	0.10	0.25	60	100	0.6	0.50	1.50	1.600	15.00
FSMD020-1210R	0.20	0.40	30	100	0.6	8.00	0.02	0.800	5.00
FSMD035-1210R	0.35	0.70	16	100	0.6	8.00	0.20	0.320	1.30
FSMD050-1210R	0.50	1.00	16	100	0.6	8.00	0.10	0.250	0.90
FSMD075-1210R	0.75	1.50	8	100	0.6	8.00	0.10	0.130	0.40
FSMD075-24-1210R	0.75	1.50	24	100	0.6	8.00	0.10	0.130	0.40
FSMD110-1210R	1.10	2.20	8	100	0.8	8.00	0.30	0.060	0.21
FSMD110-16-1210R	1.10	2.20	16	100	0.8	8.00	0.30	0.060	0.21
FSMD150-1210R	1.50	3.00	6	100	0.8	8.00	0.50	0.040	0.11
FSMD175-1210R	1.75	3.50	6	100	0.8	8.00	0.60	0.020	0.08
FSMD200-1210R	2.00	4.00	6	100	0.8	8.00	1.00	0.015	0.07

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>).  
 Pd=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.  
 R1<sub>MAX</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.**

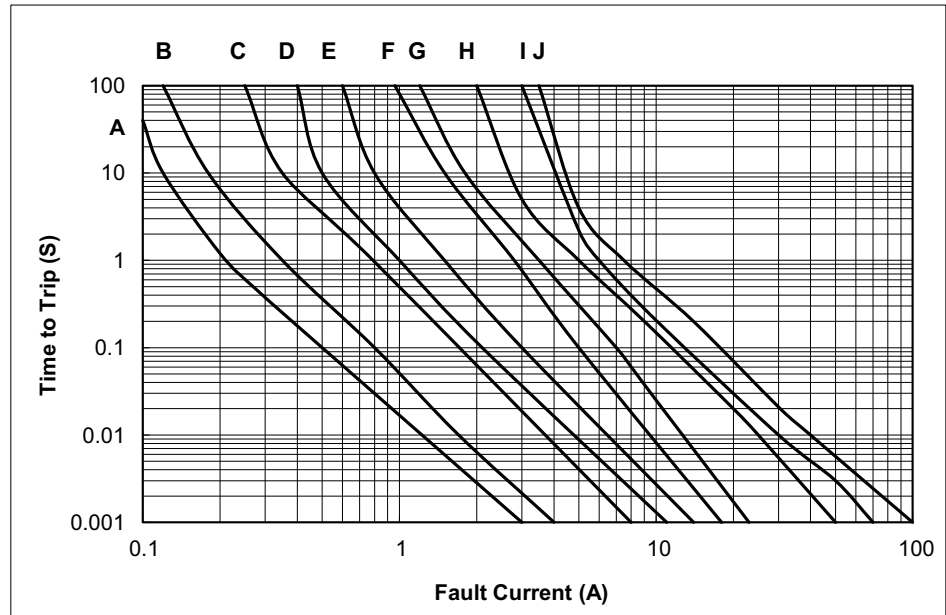
**DIMENSIONS (mm)**



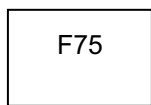
Part Number	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FSMD005-1210R	3.00	3.43	2.35	2.80	0.60	1.15	0.25	0.75	0.10	0.45
FSMD010-1210R	3.00	3.43	2.35	2.80	0.60	1.15	0.25	0.75	0.10	0.45
FSMD020-1210R	3.00	3.43	2.35	2.80	0.40	0.85	0.25	0.75	0.10	0.45
FSMD035-1210R	3.00	3.43	2.35	2.80	0.40	0.80	0.25	0.75	0.10	0.45
FSMD050-1210R	3.00	3.43	2.35	2.80	0.30	0.75	0.25	0.75	0.10	0.45
FSMD075-1210R	3.00	3.43	2.35	2.80	0.30	0.70	0.25	0.75	0.10	0.45
FSMD075-24-1210R	3.00	3.43	2.35	2.80	0.80	1.20	0.25	0.75	0.10	0.45
FSMD110-1210R	3.00	3.43	2.35	2.80	0.60	1.00	0.25	0.75	0.10	0.45
FSMD110-16-1210R	3.00	3.43	2.35	2.80	0.60	1.00	0.25	0.75	0.10	0.45
FSMD150-1210R	3.00	3.43	2.35	2.80	0.50	0.90	0.25	0.75	0.10	0.45
FSMD175-1210R	3.00	3.43	2.35	2.80	0.80	1.40	0.25	0.75	0.10	0.45
FSMD200-1210R	3.00	3.43	2.35	2.80	0.80	1.40	0.25	0.75	0.10	0.45

**TYPICAL TIME-TO-TRIP AT 23°C**

- A = FSMD005-1210-R
- B = FSMD010-1210-R
- C = FSMD020-1210-R
- D = FSMD035-1210-R
- E = FSMD050-1210-R
- F = FSMD075-1210-R / 075-24-1210R
- G = FSMD110-1210R / 110-16-1210R
- H = FSMD150-1210R
- I = FSMD175-1210R
- J = FSMD200-1210R



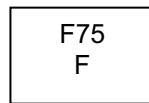
**MARKING SYSTEM**



Example



Part Identification



Example



Part Identification

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