

FEATURES

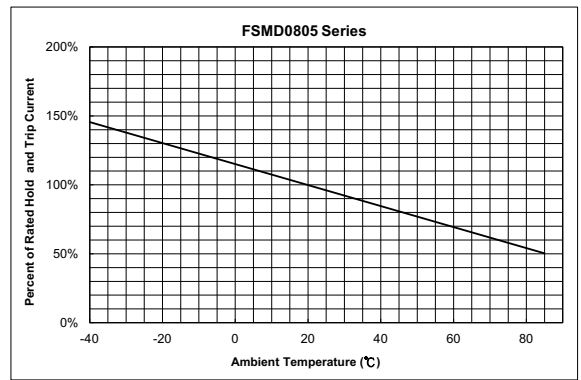
- Applications : All high-density boards
- Product Features : Faster time to trip and Lower resistnace than standard SMD devices
- Operation Current: 0.01A ~ 1A
- Maximum Voltage: 6V~24Vdc
- Temperature Range: -40°C to 85°C

AGENCY RECOGNITION

Made for RFE by UL shop Fuzetec

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

THERMAL DERATING CURVE



ELECTRICAL CHARACTERISTICS (23°C)

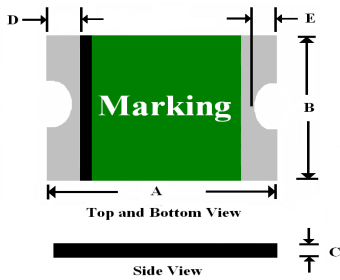
Part Number	Hold Current I _H , A	Trip Current I _T , A	Rated Voltage V _{MAX} , Vdc	Maximum Current I _{MAX} , A	Typical Power P _d , W	Max. Time to Trip		Resistance	
						Current A	Time Sec	R min Ohms	R1 max Ohms
FSMD010-0805R	0.10	0.30	15	100	0.5	0.5	1.50	0.70	6.00
FSMD010-24-0805R	0.10	0.30	24	100	0.5	0.5	1.50	0.70	6.00
FSMD020-0805R	0.20	0.50	9	100	0.5	8.0	0.02	0.40	3.50
FSMD035-0805R	0.35	0.75	6	100	0.5	8.0	0.10	0.25	1.20
FSMD050-0805R	0.50	1.00	6	100	0.5	8.0	0.10	0.15	0.85
FSMD050-9-0805R	0.50	1.00	9	100	0.5	8.0	0.10	0.15	0.85
FSMD075-0805R	0.75	1.50	6	100	0.6	8.0	0.20	0.09	0.35
FSMD100-0805R	1.00	1.95	6	100	0.6	8.0	0.30	0.06	0.21
FSMD110-0805R	1.10	2.20	6	100	0.6	8.0	0.20	0.05	0.20

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.
 R1_{MAX}=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.

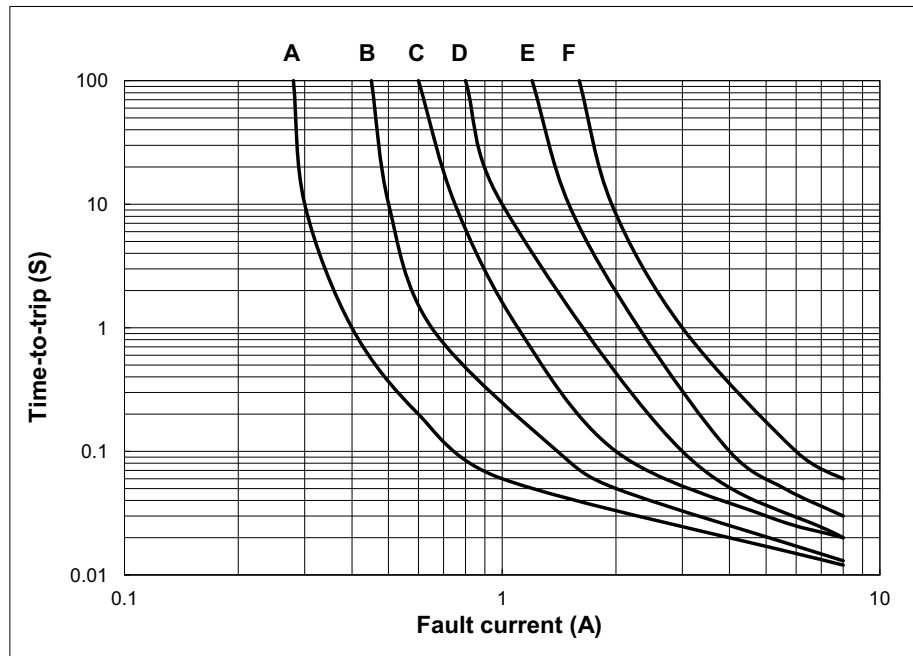
■ **DIMENSIONS (mm)**



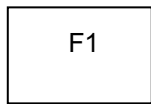
Part Number	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FSMD010-0805R	2.00	2.30	1.20	1.50	0.30	1.00	0.20	0.60	0.10	0.45
FSMD010-24-0805R	2.00	2.30	1.20	1.50	0.30	1.00	0.20	0.60	0.10	0.45
FSMD020-0805R	2.00	2.30	1.20	1.50	0.30	1.00	0.20	0.60	0.10	0.45
FSMD035-0805R	2.00	2.30	1.20	1.50	0.25	0.75	0.20	0.60	0.10	0.45
FSMD050-0805R	2.00	2.30	1.20	1.50	0.40	0.90	0.20	0.60	0.10	0.45
FSMD050-9-0805R	2.00	2.30	1.20	1.50	0.55	1.25	0.20	0.60	0.10	0.45
FSMD075-0805R	2.00	2.30	1.20	1.50	0.55	1.25	0.20	0.60	0.10	0.45
FSMD100-0805R	2.00	2.30	1.20	1.50	0.75	1.80	0.20	0.60	0.10	0.45
FSMD110-0805R	2.00	2.30	1.20	1.50	0.75	1.80	0.20	0.60	0.10	0.45

■ **TYPICAL TIME-TO-TRIP AT 23°C**

- A = FSMD010-0805-R / FSMD010-24-0805-R
- B = FSMD020-0805-R
- C = FSMD035-0805-R
- D = FSMD050-0805R / FSMD050-9-0805R
- E = FSMD075-0805R
- F = FSMD100-0805R



■ **MARKING SYSTEM**



Example



Part Identification

- F1 = FSMD010-0805-R
- FB = FSMD010-24-0805-R
- F2 = FSMD020-0805-R
- F3 = FSMD035-0805-R
- F5 = FSMD050-0805R
- FA = FSMD050-9-0805R
- F7 = FSMD075-0805R
- F0 = FSMD100-0805R

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