

■ **FEATURES**

- 0805 size Surface Mount
- Application: All high-density boards
- Operation Current: 100mA ~ 350mA
- Maximum Voltage: 6V ~ 15V
- Temperature Range: -40°C to 85°C
- RoHS Compliant

■ **AGENCY RECOGNITION**

- UL (Pending)
- C-UL (Pending)
- TÜV (Pending)

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

Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Max Time to Trip		Resistance Tolerance	
						Current	Time	R _{MIN}	R _{1MAX}
	I _H , A	I _T , A	V _{MAX} , Vdc	I _{MAX} , A	P _d , W	Amp	Sec	OHMS	OHMS
FSMD010-0805	0.10	0.30	15	100	0.5	0.50	1.500	0.70	6.000
FSMD020-0805	0.20	0.50	9	100	0.5	8.00	0.02	0.40	3.500
FSMD035-0805	0.35	0.75	6	100	0.5	8.00	0.10	0.25	1.200

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}).

I_{MAX}=Maximum fault current device can withstand without damage at rated voltage (V_{MAX}).

P_d=Typical power dissipated-type amount of power dissipated by the device when in the tripped state in 23°C still air environment.

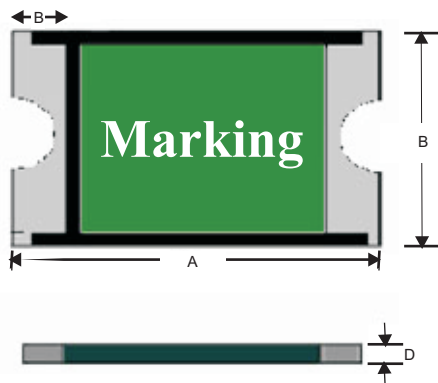
R_{MIN}=Minimum device resistance at 23°C prior to tripping.

R_{1MAX}=Maximum device resistance at 23°C measured 1 hour post trip.

Termination pad characteristics

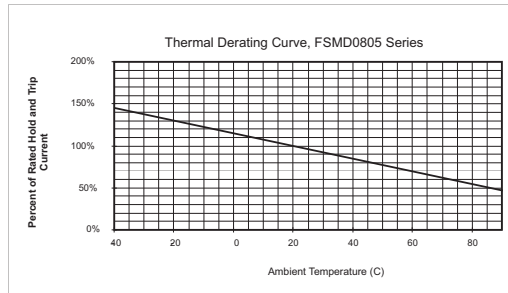
Termination pad materials: solder-plated copper

■ **FSMD PRODUCT DIMENSIONS (MILLIMETERS)**



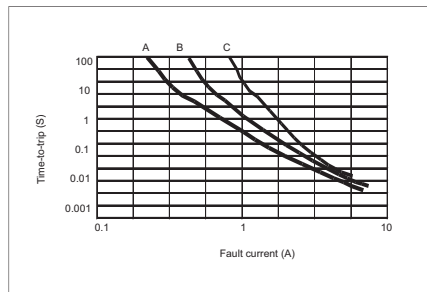
Part Number	A		B		C		D
	Min	Max	Min	Max	Min	Max	Min
FSMD010-0805	2.00	2.2	1.20	1.5	0.20	0.55	1.00
FSMD020-0805	2.00	2.2	1.20	1.5	0.20	0.55	1.00
FSMD035-0805	2.00	2.2	1.20	1.5	0.20	0.47	0.75

■ **THERMAL PRODUCT DIMENSIONS (MILLIMETERS)**



A= FSMD 075, 100
B= FSMD 014, 020, 035 & 050

■ **TYPICAL TIME-TO-TRIP AT 23°C**

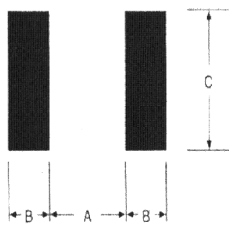


A = FSMD010 - 0805
B = FSMD020 - 0805
C = FSMD035 - 0805

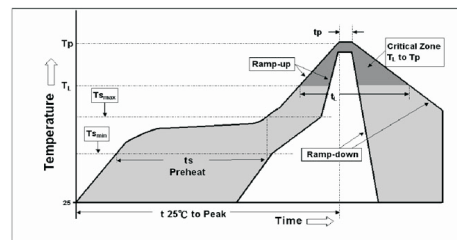
■ **PAD LAYOUTS, SOLDER REFLOW AND REWORK RECOMMENDATIONS**

The dimensions in the table below provide the recommended pad layout for each FSMD 1812 device

NOMINAL PAD DIMENSIONS (MILLIMETERS)



SOLDER REFLOW



Solder Reflow

Due to "Lead Free" nature, Temperature and Dwelling time for the soldering zone is higher than those for regular. This may cause damage to other components.

1. Recommended maximum past thickness is 0.25mm.
2. Devices can be cleaned by using standard industry methods and solvents.
3. Storage Environment: <30°C / 60% RH solvents.

Caution:

If reflow temperatures exceed the recommended profile, devices may not meet performance requirements. Devices are not designed to be wave soldered to the bottom side of the board.

Rework:

Use standard industry practices.

NOTE: All Specification subject to change without notice.