

**FEATURES**

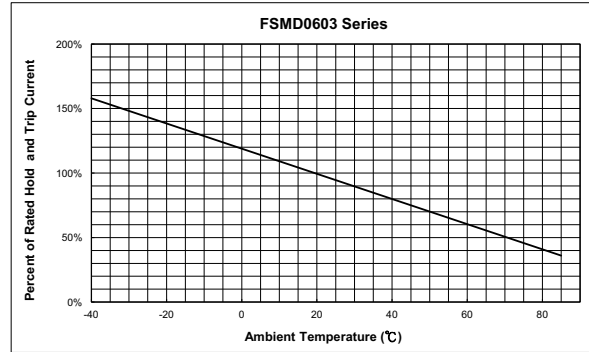
- Applications : All high-density boards
- Product Features : Faster time to trip and Lower resistnace than standard SMD devices
- Operation Current: 0.01A ~ 0.20A
- Maximum Voltage: 9V~60Vdc
- Temperature Range: -40°C to 85°C

**AGENCY RECOGNITION**

Made for RFE by UL shop Fuzetec

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

**THERMAL DERATING CURVE**



**ELECTRICAL CHARACTERISTICS (23°C)**

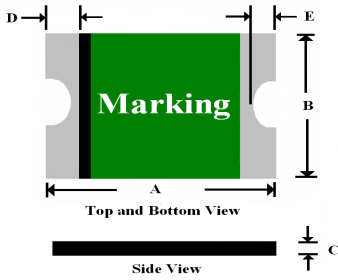
Part Number	Hold Current	Trip Current	Rated Voltage	Maximum Current	Typical Power	Max. Time to Trip		Resistance	
						Current	Time	R min	R1 max
	I <sub>H</sub> , A	I <sub>T</sub> , A	V <sub>MAX</sub> , Vdc	I <sub>MAX</sub> , A	P <sub>d</sub> , W	A	Sec	Ohms	Ohms
FSMD001-0603R	0.00	0.03	60	40	0.5	0.2	1.0	15.00	100.00
FSMD002-0603R	0.02	0.06	60	40	0.5	0.2	1.0	12.00	70.00
FSMD003-0603R	0.03	0.09	30	40	0.5	0.2	1.0	6.00	50.00
FSMD004-0603R	0.04	0.12	24	40	0.5	0.2	1.0	4.00	40.00
FSMD005-0603R	0.05	0.15	15	40	0.5	0.5	0.1	3.80	30.00
FSMD010-0603R	0.10	0.25	15	40	0.5	0.7	0.1	0.90	8.00
FSMD012-0603R	0.12	0.30	9	40	0.5	0.8	0.1	1.10	5.80
FSMD016-0603R	0.16	0.40	9	40	0.5	1.0	0.1	1.00	4.20
FSMD020-0603R	0.20	0.45	9	40	0.5	2.0	0.1	0.55	3.50

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.

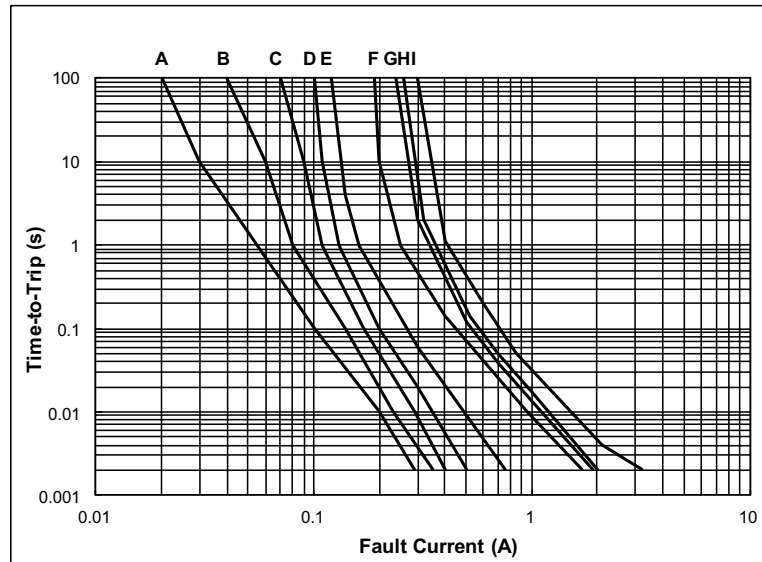
**DIMENSIONS (mm)**



Part Number	A		B		C		D		E	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FSMD001-0603R	1.40	1.80	0.45	1.00	0.35	0.85	0.10	0.50	0.08	0.40
FSMD002-0603R	1.40	1.80	0.45	1.00	0.35	0.85	0.10	0.50	0.08	0.40
FSMD003-0603R	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
FSMD004-0603R	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
FSMD005-0603R	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
FSMD010-0603R	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
FSMD012-0603R	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
FSMD016-0603R	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40
FSMD020-0603R	1.40	1.80	0.45	1.00	0.35	0.75	0.10	0.50	0.08	0.40

**TYPICAL TIME-TO-TRIP AT 23°C**

- A=FSMD001-0603-R
- B=FSMD002-0603-R
- C=FSMD003-0603-R
- D=FSMD004-0603-R
- E=FSMD005-0603-R
- F=FSMD010-0603-R
- G=FSMD012-0603-R
- H=FSMD016-0603-R
- I=FSMD020-0603-R



**MARKING SYSTEM**



Example



Part Identification

- X=FSMD001-0603-R
- Y=FSMD002-0603-R
- Z=FSMD003-0603-R
- A=FSMD004-0603-R
- B=FSMD005-0603-R
- D=FSMD010-0603-R
- E=FSMD012-0603-R
- F=FSMD016-0603-R
- G=FSMD020-0603-R

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