

**FEATURES :**

- \* RoHS, Halogen Free
- \* Operation Current : 100mA - 3A
- \* Maximum Voltage : 6V - 60V
- \* Temperature Range : -40°C ~ +85°C

**Approvals :**

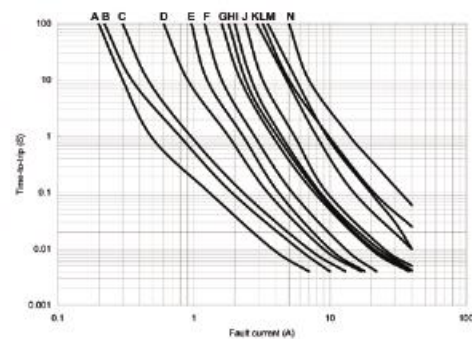
- \* UL Recognized : File E211981
- \* c-UL Recognized : File E211981
- \* TÜV : R50004084, R50090556 †
- † FSMD010 : TÜV Pending

**FSMD SERIES**

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

Part Number	Hold Current	Trip Current	Rated Voltage	Max Current	Typical Power	Max Time to Trip		Resistance	
	$I_H$ , A	$I_T$ , A	$V_{MAX}$ , Vdc	$I_{MAX}$ , A	$P_d$ , W	Current	Time	$R_{MIN}$	$R1_{MAX}$
						Amp	Sec	$\Omega$	$\Omega$
FSMD010	0.10	0.30	60	10	0.8	8.0	0.020	1.600	15.00
FSMD010-R	0.10	0.30	60	10	0.8	8.0	0.020	1.600	15.00
FSMD014	0.14	0.30	60	10	0.8	8.0	0.008	1.200	6.500
FSMD014-R	0.14	0.30	60	10	0.8	8.0	0.008	1.200	6.500
FSMD020	0.20	0.40	30	10	0.8	8.0	0.020	0.800	5.000
FSMD020-R	0.20	0.40	30	10	0.8	8.0	0.020	0.800	5.000
FSMD035	0.35	0.70	16	40	0.8	8.0	0.100	0.320	1.500
FSMD035-R	0.35	0.70	16	40	0.8	8.0	0.100	0.320	1.500
FSMD050	0.50	1.00	16	40	0.8	8.0	0.150	0.150	1.000
FSMD050-R	0.50	1.00	16	40	0.8	8.0	0.150	0.150	1.000
FSMD075	0.75	1.50	16	40	0.8	8.0	0.200	0.110	0.450
FSMD075-R	0.75	1.50	16	40	0.8	8.0	0.200	0.110	0.450
FSMD075-24R	0.75	1.50	24	40	1.0	8.0	0.200	0.110	0.290
FSMD075-33R	0.75	1.50	33	40	1.0	8.0	0.200	0.110	0.400
FSMD110	1.10	2.20	8	100	0.8	8.0	0.300	0.040	0.210
FSMD110-R	1.10	2.20	8	100	0.8	8.0	0.300	0.040	0.210
FSMD110-16	1.10	2.20	16	100	0.8	8.0	0.500	0.040	0.180
FSMD110-16-R	1.10	2.20	16	100	0.8	8.0	0.500	0.040	0.180
FSMD110-24R	1.10	2.20	24	100	1.0	8.0	0.500	0.060	0.200
FSMD125	1.25	2.50	6	40	0.8	8.0	0.400	0.050	0.140
FSMD125-R	1.25	2.50	6	40	0.8	8.0	0.400	0.050	0.140
FSMD150	1.50	3.00	8	100	0.8	8.0	0.500	0.040	0.110
FSMD150-R	1.50	3.00	8	100	0.8	8.0	0.500	0.040	0.110
FSMD150-12R	1.50	3.00	12	100	1.0	8.0	0.500	0.040	0.110
FSMD150-24R	1.50	3.00	24	100	1.0	8.0	1.500	0.040	0.120
FSMD160	1.60	3.20	8	100	0.8	8.0	0.500	0.030	0.100
FSMD160-R	1.60	3.20	8	100	0.8	8.0	0.500	0.030	0.100
FSMD160-12R	1.60	3.20	12	100	1.0	8.0	1.000	0.030	0.100
FSMD160-16R	1.60	3.20	16	100	1.0	8.0	1.000	0.030	0.100
FSMD190RZ	1.90	4.90	6	100	1.0	8.0	5.000	0.003	0.025
FSMD200R	2.00	3.50	8	100	1.0	8.0	2.000	0.020	0.070
FSMD260R	2.60	5.00	6	100	1.0	8.0	2.500	0.015	0.047
FSMD260-13R	2.60	5.00	13.2	100	1.3	8.0	5.000	0.015	0.050
FSMD260-16R	2.60	5.00	16	100	1.3	8.0	5.000	0.015	0.050
FSMD300R	3.00	5.00	6	100	1.0	8.0	4.000	0.012	0.040

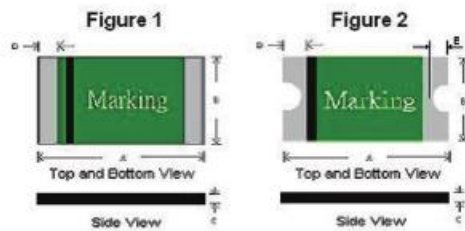
**Typical Time-to-trip at 23°C :**



- A = FSMD010/010-R
- B = FSMD014/014-R
- C = FSMD020/020-R
- D = FSMD035/035-R
- E = FSMD050/050-R
- F = FSMD075/075-R/075-24R/075-33R
- G = FSMD110/110-R/110-16/110-16-R/110-24R
- H = FSMD125/125-R
- I = FSMD150/150-R/150-12R/150-24R
- J = FSMD160/160-R/160-12R/160-16R
- K = FSMD200R
- L = FSMD260R/260-13R/260-16R
- M = FSMD190RZ
- N = FSMD300R

PTC SMD DEVICE

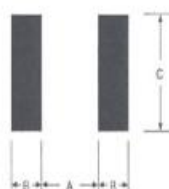
**DIMENSIONS :**



Part Number	Figure	A		B		C		D		E	
		Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
FSMDxxx	1	4.37	4.73	3.07	3.41	0.25	1.55	0.25	0.95	—	—
FSMDxxx(-xx)R	2	4.37	4.73	3.07	3.41	0.25	1.55	0.25	0.95	0.25	0.65

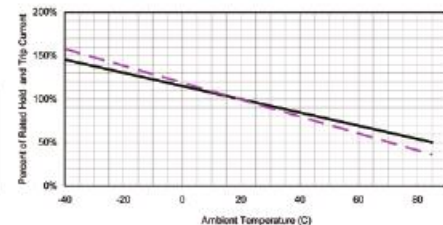
\* Ask PICO for details in dimensions.

**Pad Layouts**



Device	Pad dimensions (millimeters)		
	A Nominal	B Nominal	C Nominal
All 1812 Series	3.45	1.78	3.50

**Thermal Derating Curve, FSMD Series**



- A= FSMD 075, 075-24R, 075-33R, 110, 110-16, 110-24R, 125, 150, 150-12R, 150-24R, 160, 160-12R, 160-16R, 190RZ, 200R, 260R, 260-13R, 260-16R & 300R
- B= FSMD010, 014, 020, 035, 050

◆ Ask PICO for other SMD Sizes; 2920 / 1210 / 1206 / 0805.