

FEATURES

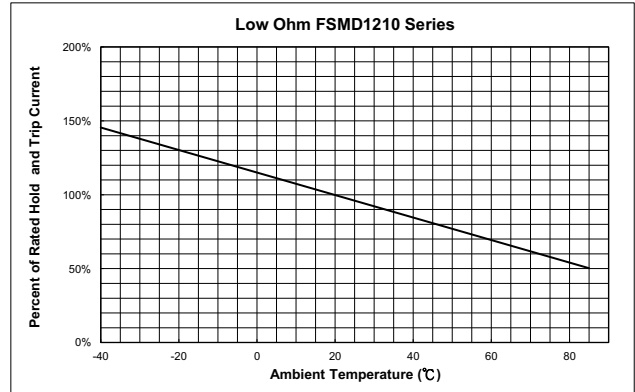
- Applications : All high-density boards
- Product Features : Faster time to trip and Lower resistnace than standard SMD devices
- Operation Current: 1.75A ~ 7.50A
- Maximum Voltage: 6Vdc
- Temperature Range: -40°C to 85°C

AGENCY RECOGNITION

Made for RFE by UL shop Fuzetec

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

THERMAL DERATING CURVE



ELECTRICAL CHARACTERISTICS (23°C)

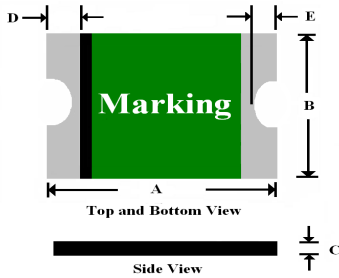
| Part Number | Hold Current | Trip Current | Rated Voltage | Maximum Current | Typical Power | Max Time to Trip | | Resistance | |
|----------------|--------------------|--------------------|------------------------|----------------------|--------------------|------------------|------|------------|-------------|
| | I _H , A | I _T , A | V _{MAX} , Vdc | I _{MAX} , A | P _d , W | Current | Time | R min Ohms | R1 max Ohms |
| FSMD175-1210RZ | 1.75 | 3.50 | 6 | 100 | 1.0 | 8.0 | 2.50 | 0.006 | 0.040 |
| FSMD200-1210RZ | 2.00 | 4.90 | 6 | 100 | 1.0 | 8.0 | 3.00 | 0.005 | 0.024 |
| FSMD260-1210RZ | 2.60 | 5.00 | 6 | 100 | 0.8 | 8.0 | 4.00 | 0.003 | 0.020 |
| FSMD300-1210RZ | 3.00 | 6.00 | 6 | 100 | 0.8 | 15.0 | 2.00 | 0.003 | 0.020 |
| FSMD350-1210RZ | 3.50 | 7.00 | 6 | 100 | 1.0 | 17.5 | 2.00 | 0.003 | 0.018 |
| FSMD380-1210RZ | 3.80 | 8.00 | 6 | 100 | 1.0 | 8.0 | 5.00 | 0.002 | 0.017 |
| FSMD400-1210RZ | 4.00 | 8.00 | 6 | 100 | 1.0 | 8.0 | 5.00 | 0.002 | 0.016 |
| FSMD450-1210RZ | 4.50 | 9.00 | 6 | 100 | 1.0 | 22.5 | 2.00 | 0.001 | 0.014 |
| FSMD650-1210RZ | 6.50 | 13.00 | 6 | 100 | 1.2 | 32.5 | 2.00 | 0.001 | 0.009 |
| FSMD700-1210RZ | 7.00 | 14.00 | 6 | 100 | 1.0 | 35.0 | 2.00 | 0.001 | 0.008 |
| FSMD750-1210RZ | 7.50 | 15.00 | 6 | 100 | 1.2 | 37.5 | 2.00 | 0.001 | 0.007 |

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.
R_{1MAX}=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.

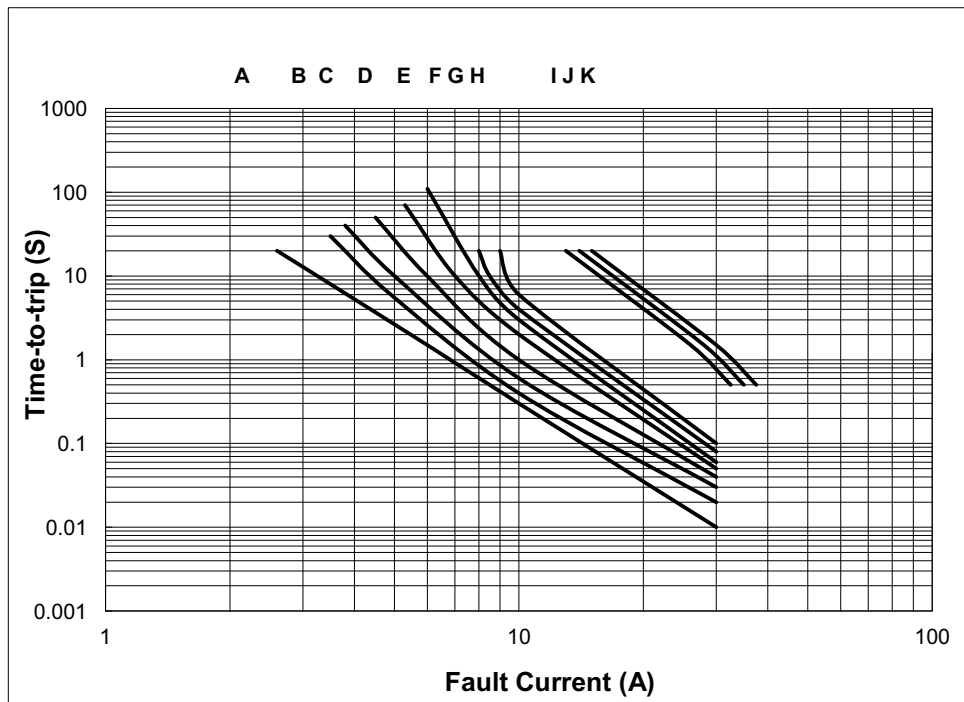
DIMENSIONS (mm)



| Part Number | A | | B | | C | | D | | E | |
|----------------|--|------|------|------|------|------|------|------|------|------|
| | $\frac{D}{T}$ $\frac{\sigma}{\sigma}$ | Max | Min | Max | Min | Max | Min | Max | Min | Max |
| FSMD175-1210RZ | | 3.43 | 2.35 | 2.80 | 0.30 | 0.70 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD200-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.30 | 0.70 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD260-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.30 | 0.70 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD300-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.30 | 1.00 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD350-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.30 | 1.00 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD380-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.60 | 1.00 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD400-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.60 | 1.00 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD450-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.60 | 1.00 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD650-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.60 | 1.00 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD700-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.60 | 1.00 | 0.25 | 0.75 | 0.10 | 0.45 |
| FSMD750-1210RZ | 3.00 | 3.43 | 2.35 | 2.80 | 0.60 | 1.00 | 0.25 | 0.75 | 0.10 | 0.45 |

TYPICAL TIME-TO-TRIP AT 23°C

- A = FSMD175-1210RZ
- B = FSMD200-1210RZ
- C = FSMD260-1210RZ
- D = FSMD300-1210RZ
- E = FSMD350-1210RZ
- F = FSMD380-1210RZ
- G = FSMD400-1210RZ
- H = FSMD450-1210RZ
- I = FSMD650-1210RZ
- J = FSMD700-1210RZ
- K = FSMD750-1210RZ



MARKING SYSTEM



Example



Part Identification

- KZ = FSMD175-1210RZ
- MZ = FSMD200-1210RZ
- QZ = FSMD260-1210RZ
- SZ = FSMD300-1210RZ
- VZ = FSMD350-1210RZ
- WZ = FSMD380-1210RZ
- XZ = FSMD400-1210RZ
- YZ = FSMD450-1210RZ
- CZ = FSMD650-1210RZ
- EZ = FSMD750-1210RZ

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