

Features



- Surface mount devices
- Very high voltage surge capabilities
- Available in lead-free version
- Agency Recognition: UL、CSA、TUV

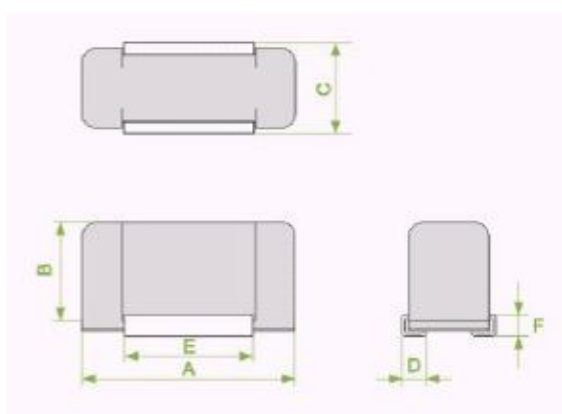


LMV series

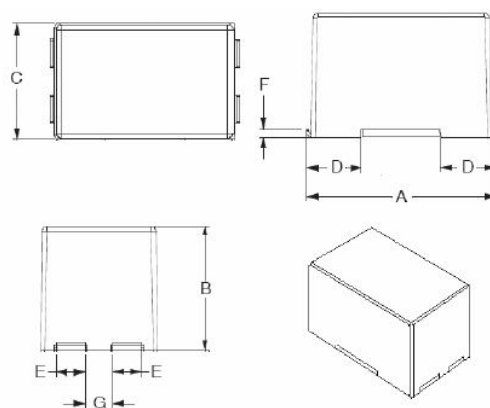
Surface mount devices

Product Dimensions

| Part number | A Max. | B Max. | C Max. | D Max. | E Max. | F Max. | Style |
|-------------|-----------|-----------|-----------|-----------|-----------|-----------|-------|
| LMV170F | 19.4 | 12.3 | 8.3 | 2.4 | 10.4 | 2.3 | 1 |
| LMV200F | 19.4 | 12.3 | 8.3 | 2.4 | 10.4 | 2.3 | 1 |
| LMV250F | 17.6 | 11.7 | 11.2 | 5.2 | 2.8 | 1.0 | 2 |
| LMV400F | 17.6 | 11.7 | 11.2 | 5.2 | 2.8 | 1.0 | 2 |



Style 1



Style 2

Marking system

LMV □ □ □

Current rating

Product family

* Lead-free devices are available,
the right logo is lead-free mark of wayon.



Electrical Characteristics

| Part number | I_H (A) | I_T (A) | Max. Current(A) | Time- to-trip Time (s) | V_{max} (V) | I_{max} (A) | Pd_{typ} (W) | R_{min} (Ω) | R_{max} (Ω) | R_{1max} (Ω) |
|-------------|--------------|--------------|-----------------|---------------------------|------------------|------------------|-------------------|---------------------------|---------------------------|----------------------------|
| LMV170F | 0.17 | 0.34 | 1.00 | 10.0 | 600 | 3 | 2.50 | 4.0 | 9.0 | 18.0 |
| LMV200F | 0.20 | 0.40 | 1.00 | 12.0 | 600 | 3 | 2.50 | 4.0 | 7.5 | 13.5 |
| LMV250F | 0.25 | 0.86 | 3.00 | 1.0 | 600 | 3 | 2.00 | 1.0 | 3.5 | 7.0 |
| LMV400F | 0.40 | 1.00 | 3.00 | 4.0 | 600 | 3 | 2.00 | 0.5 | 1.5 | 2.0 |

I_H =Hold current: maximum current at which the device will not trip at 25°C still air.

I_T =Trip current: minimum current at which the device will always trip at 25°C still air.

V_{max} =Maximum voltage device can withstand without damage at rated current.

I_{max} =Maximum fault current device can withstand without damage at rated voltage.

Max. Time-to-trip=Maximum time to trip(s) at assigned current.

P_{dtyp} =Typical power dissipation: typical amount of power dissipated by the device when in state air environment.

R_{min} =Minimum device resistance at 25°C prior to tripping.

R_{max} =Maximum device resistance at 25°C prior to tripping.

R_{1max} =Maximum device resistance measured one hour post-trip at 25°C

Thermal Derating Chart- $I_H(A)$

| Part number | Maximum ambient operating temperatures(°C) | | | | | | | | |
|-------------|--|-------|-------|-------|-------|-------|-------|-------|-------|
| | -40 | -20 | 0 | 25 | 40 | 50 | 60 | 70 | 85 |
| LMV170F | 0.264 | 0.230 | 0.200 | 0.170 | 0.140 | 0.125 | 0.100 | 0.094 | 0.070 |
| LMV200F | 0.310 | 0.275 | 0.238 | 0.200 | 0.165 | 0.147 | 0.128 | 0.110 | 0.083 |
| LMV250F | 0.400 | 0.350 | 0.300 | 0.250 | 0.198 | 0.170 | 0.141 | 0.117 | 0.083 |
| LMV400F | 0.640 | 0.560 | 0.480 | 0.400 | 0.320 | 0.270 | 0.230 | 0.190 | 0.130 |

Test Procedures And Requirements

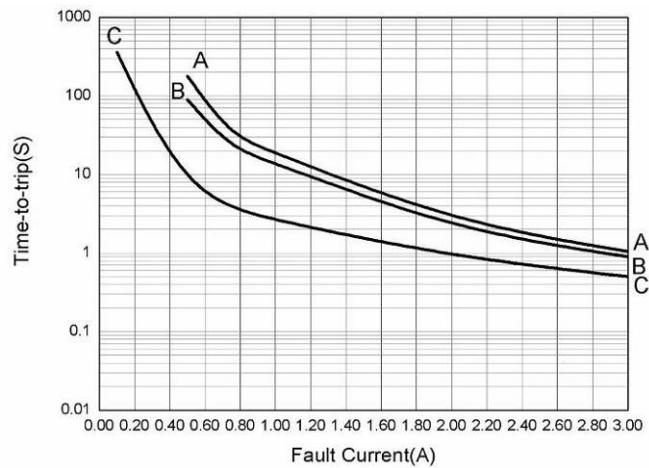
| Test | Test Conditions | Accept/Reject Criteria |
|-----------------|-------------------------------------|-------------------------------|
| Resistance | In still air @ 25°C | $R_{min} \leq R \leq R_{max}$ |
| Time to Trip | Specified current, V_{max} , 25°C | $T \leq$ maximum Time to Trip |
| Hold Current | 30min, at I_H | No trip |
| Trip Cycle Life | V_{max} , I_{max} , 100cycles | No arcing or burning |
| Trip Endurance | V_{max} , 24hours | No arcing or burning |

Typical Time-to-trip Charts at 25°C

A=LMV170F/LMV200F

B=LMV250F

C=LMV400F



Package Information

Bulk:

LMV170F~LMV400F.....200pcs per bag

Tape & Reel:

LMV170F~LMV400F.....300pcs per reel