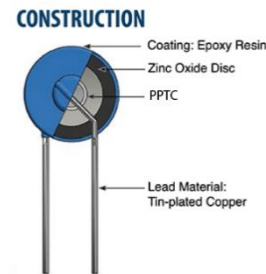


Introducing and comparing the New Patented FCMOV

What is an FCMOV? The Fuzetec FCMOV is a Metal Oxide Varistor (MOV) with a Polymeric Positive Temperature Thermistor (PPTC resettable fuse) attached in-line with the MOV.

- Hybrid patented PPTC technology.
- Divide Voltage when PPTC Tripped
- Can extend MOV life.
- Customizable to Application Demands
- Faster than typical TMOV
- Resettable, may reduce repair labor.
- Excellent over current protection.

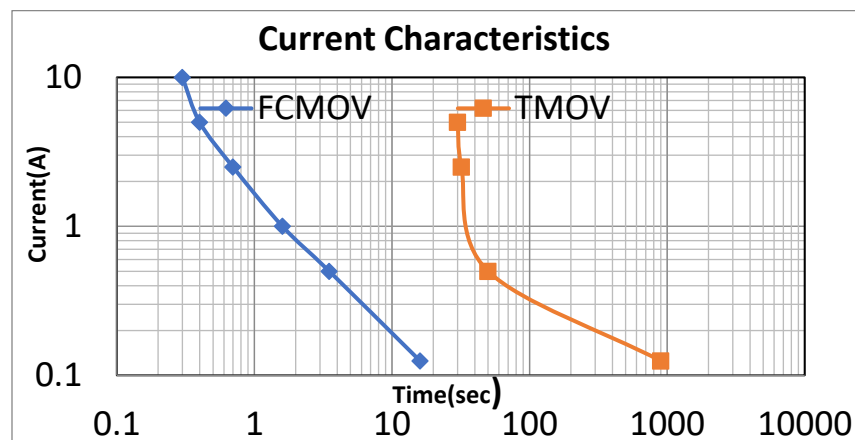


Device	FCMOV	TMOV	MOV
Protection type	PTC (Current & Thermal)	TCO (Thermal Fuse)	No Protection
Circuit Connection	In series	In series	In series
Response Time	Very fast, typically under 1 second	2-25 seconds	Burned
Safety Level	High	Med	Low
Resettable	Yes	No	Burned
Cost	Med	High	Low
Custom Design	Custom design available	Standard part only	NA

How does an FCMOV compare to a TMOV or an unprotected MOV?

The FCMOV has a very fast response time reacting to over-voltages. Typically, 50 times faster than a TMOV (see below):

Device	FCMOV	TMOV	MOV
Abnormal over-voltage results	Fast Protection	Slow Protection	No Protection (MOV burned)



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The FCMOV is resettable and withstands abnormal over-voltage of more than hundred cycles (see below).

Device used	FCMOV	TMOV	MOV
Device type	Resettable	One time	No protection
Number of survivable abnormal over voltages	More than 100 cycles	One	No Protection (MOV burned)

FCMOV has better life performance under abnormal over-voltage cycles.

Abnormal Over-voltage Cycle test			
Test condition	Power at 305Vac/10A	Cycle: 0.01 sec on and 1 sec off	
Product type	New MOV with PPTC	Traditional TMOV	Non protected MOV
Results by number of cycles	FCMOV14201	TMOV14RP130E	MOV14P201K
5 cycles	Pass	Pass	Pass
10 cycles	Pass	Pass	Fail/Burn
15 cycles	Pass	Fail/Burn	Fail/Burn
20 cycles	Pass	Fail/Burn	Fail/Burn
50 cycles	Pass	Fail/Burn	Fail/Burn
100 cycles	Pass	Fail/Burn	Fail/Burn
Number of cycles to Fail/Burn	>100 cycles	10 cycles	7 cycles

FCMOV price is lower than TMOV about cost reduction of 40% to 50%

Why should a company consider using the Fuzetec FCMOV?

- **Offers better protection than an unprotected MOV**
- **Is faster than a TMOV**
- **Extends the useful life of the MOV**
- **Does not fail in many situations where others fail or even burn**
- **Is much lower priced than TMOVs**

Great Product, Great Prices and Reliable, Fast and Efficient, may we have an opportunity to work with you on this?

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