TPMOV® TECHNOLOGY

SURGE PROTECTIVE DEVICE

COMPONENT SPD FOR OEM DESIGN AND BUILD



Mersen's patented TPMOV technology eliminates common failure modes that occur in the field with standard metal oxide varistors. Internally the TPMOV is comprised of a voltage clamping device and a disconnecting apparatus that monitors the status of the metal oxide disk, making the TPMOV a fail-safe device. In the event of an overvoltage breakdown, the metal oxide disk is securely disconnected from the system power by an arc shield. Upon failure, the TPMOV is also equipped with a visual pin indicator as well as a normally open micro-switch, providing remote indication if applicable.

FEATURES AND BENEFITS:

- 50% more surge capacity—same footprint: The TPMOV7 is rated for 75kA 8/20µs peak surge current and is available for MCOV from 150V to 320VAC.
- Consistent footprint with 25-40mm MOVs
- Industry-leading, patented TPMOV
- technology available in 50kA and 75kA surge capacities
- Built-in visual/remote indication optional
- Wave solderable
 - No additional overcurrent protective device (fuses) required

RATINGS:

- **Volts (U_n):** 150-550VAC
- Nominal Discharge Current
 Rating (I_n): 20kA
- Surge Capacity: 50kA, 75kA
- Short-Circuit Current Rating (SCCR): 200kA

APPROVALS:

- ANSI/UL 1449 4th Edition, Type 1 Component Assembly SPD, File E210793
- RoHS Compliant





CATALOG NUMBER (INCLUDES SUFFIXES*)	MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV)	VOLTAGE PROTECTION RATING (VPR)	NOMINAL DISCHARGE CURRENT (kA)	OPERATING TEMPERATURE	TPMOV DIMENSION A (INCHES)
150TPM0V (7)	150VAC	600	20	-40°C to +85°C	0.485
180TPMOV	180VAC	800	20	-40°C to +85°C	0.485
270TPMOV	275VAC	800	20	-40°C to +85°C	0.495
320TPMOV (7)	320VAC	1000	20	-40°C to +85°C	0.51
420TPMOV	420VAC	1500	20	-40°C to +85°C	0.54
510TPM0V	510VAC	1500	20	-40°C to +85°C	0.54
550TPMOV	550VAC	1500	20	-40°C to +85°C	0.545

CATALOG - ORDERING SYSTEM (TPMOV)

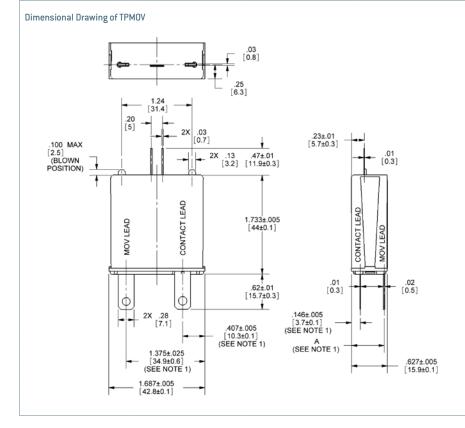
CATALOG ORDERI	NO STOTEM (TEMOV	•	
150 Maximum Continuous Operating Voltage (MCOV)	TPMOV Model Series	7 Surge Capacity	
150: 150VAC 180: 180VAC 270: 275VAC 320: 320VAC 420: 420VAC 510: 510VAC 550: 550VAC	TPMOV: Thermally Protected MOV	BLANK: 50kA 7: 75kA	

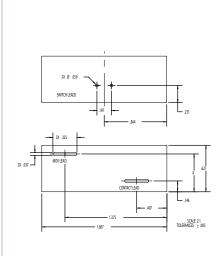
SL Mechanical Options

Suffix	PCB Leads	Tact Switch	Visual Tabs	Pkg Qty
Blank	No	Yes	Yes	10
S	Yes	Yes	No	10
SL	Yes	Yes	No	500
ST	Yes	Yes	Yes	10
SLT	Yes	Yes	Yes	500
HV	No	Yes-HV	Yes	10
S-HV	Yes	Yes-HV	Yes	10
SL-HV	Yes	Yes-HV	Yes	500

^{*} For details regarding HV microswitch please consult factory

Board Layout Dimensions





VULIAGE	A DIMENSIUN
550	0.545
420/510	0.54
320	0.51
270	0.495
150/180	0.485

