

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:

- High energy capacity
- Consistent footprint with 25-40mm MOVs
- Built-in visual/remote indication
- Wave solderable
- No additional overcurrent protection device (fuses) required

RATINGS:

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

APPROVALS:

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

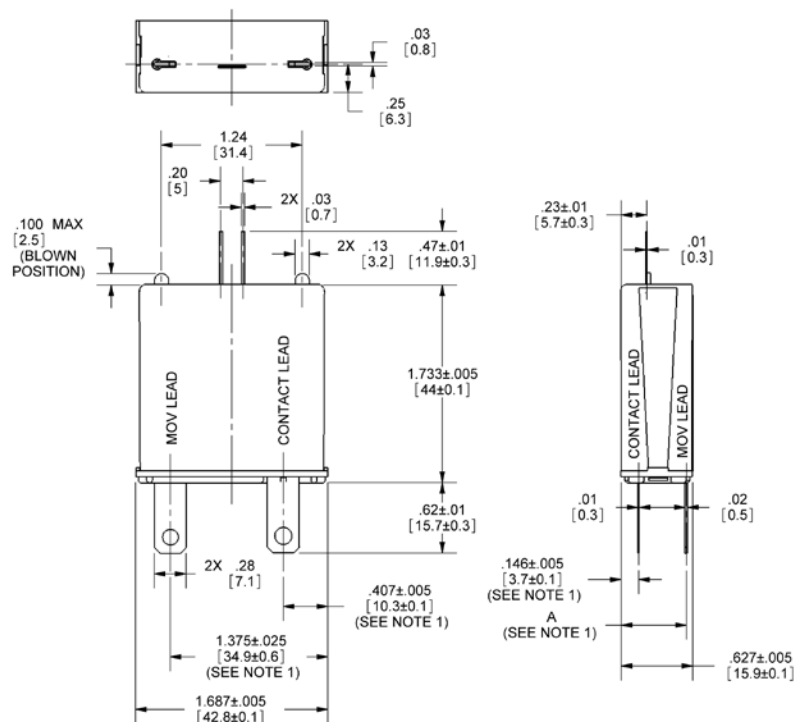


CATALOG NUMBER (INCLUDES SUFFIXES*)	MAXIMUM CONTINUOUS OPERATING VOLTAGE (MCOV, VAC)	VOLTAGE PROTECTION RATING (VPR)	NOMINAL DISCHARGE CURRENT (kA)	OPERATING TEMPERATURE	DIMENSION A (INCHES)
150TPMOV	150	700	20	-40°C to +85°C	0.485
180TPMOV	180	800	20	-40°C to +85°C	0.485
270TPMOV	275	800	20	-40°C to +85°C	0.495
320TPMOV	320	1000	20	-40°C to +85°C	0.51
420TPMOV	420	1500	20	-40°C to +85°C	0.54
510TPMOV	510	1500	20	-40°C to +85°C	0.54
550TPMOV	550	1500	20	-40°C to +85°C	0.545

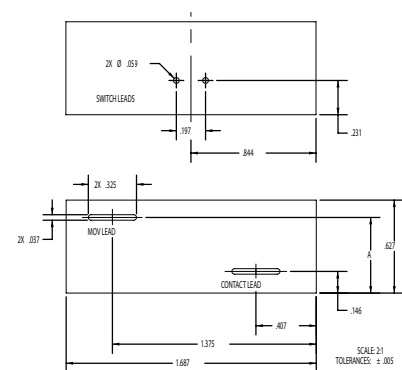
CATALOG - ORDERING SYSTEM

150 Maximum Continuous Operating Voltage (MCOV)	TPMOV Model Series	SL Package (Description and Quantity)
150: 150VAC 180: 180VAC 270: 275VAC 320: 320VAC 420: 420VAC 510: 510VAC 550: 550VAC	TPMOV: Thermally Protected MOV	Blank: Tabs & Microswitch with Long Leads (Quantity: 10) S: Microswitch with Short Leads, no visual indicator (Quantity: 10) SL: Microswitch with Short Leads, no visual indicator (Quantity: 500) ST: Tabs & Microswitch with Short Leads (Quantity: 10) SLT: Tabs & Microswitch with Short Leads (Quantity: 500) -HV: Tabs & Heavy Duty Microswitch with Long Leads (Quantity: 10) S-HV: Tabs & Heavy Duty Microswitch with Short Leads (Quantity: 10) SL-HV: Tabs & Heavy Duty Microswitch with Short Leads (Quantity: 500)

Dimensional Drawing of TPOMOV



Board Layout Dimensions



VOLTAGE	A DIMENSION
550	0.545
420/510	0.54
320	0.51
270	0.495
150/180	0.485