

25TPMOV[®] (Thermally Protected MOV)

Thermally Protected Metal Oxide Varistor

SURGE PROTECTION

SELF-PROTECTED MOV UTILIZING THE FASTEST & SAFEST DISCONNECT SYSTEM AVAILABLE FOR DESIGNERS OF SPDs & ELECTRICAL EQUIPMENT



30% SMALLER FOOTPRINT - SAME RELIABLE TPMOV TECHNOLOGY

Mersen's TPMOV technology eliminates common failure modes that occur in the field with standard metal oxide varistors. Internally it is comprised of a voltage clamping device and a disconnecting apparatus that monitors the status of the metal oxide disk, making the TPMOV surge suppression component a fail-safe device. Upon failure, the TPMOV surge suppression component is also equipped with a visual pin indicator as well as a normally open micro-switch, providing remote indication if applicable. Mersen's 25TPMOV series surge suppression component is rated for 25kA - 8/20 μ s peak surge current and is available for maximum continuous operating voltages (MCOV) from 150V to 320VAC.

Technical Data Overview	
Volts (U _n)	150-320VAC
Nominal Discharge Current Rating (I _n)	10kA
Surge Capacity	25kA
Short-Circuit Current Rating (SCCR)	200kA
Response Time	Less than 1 nanosecond (one per phase)
Ambient Temperature Rating	-40°C to +85°C

FEATURES/BENEFITS

- Industry leading TPMOV technology
- Now available in a standard 25mm MOV footprint
- Upstream overcurrent protection not required
- Optional built-in end-of-life indication
- Type 1 SPD allows for use in all types of SPD applications

APPLICATIONS

- For OEM design and build

APPROVALS/STANDARDS

- ANSI/UL 1449 5th Edition, Type 1 CA SPD, File E210793
- RoHS Compliant



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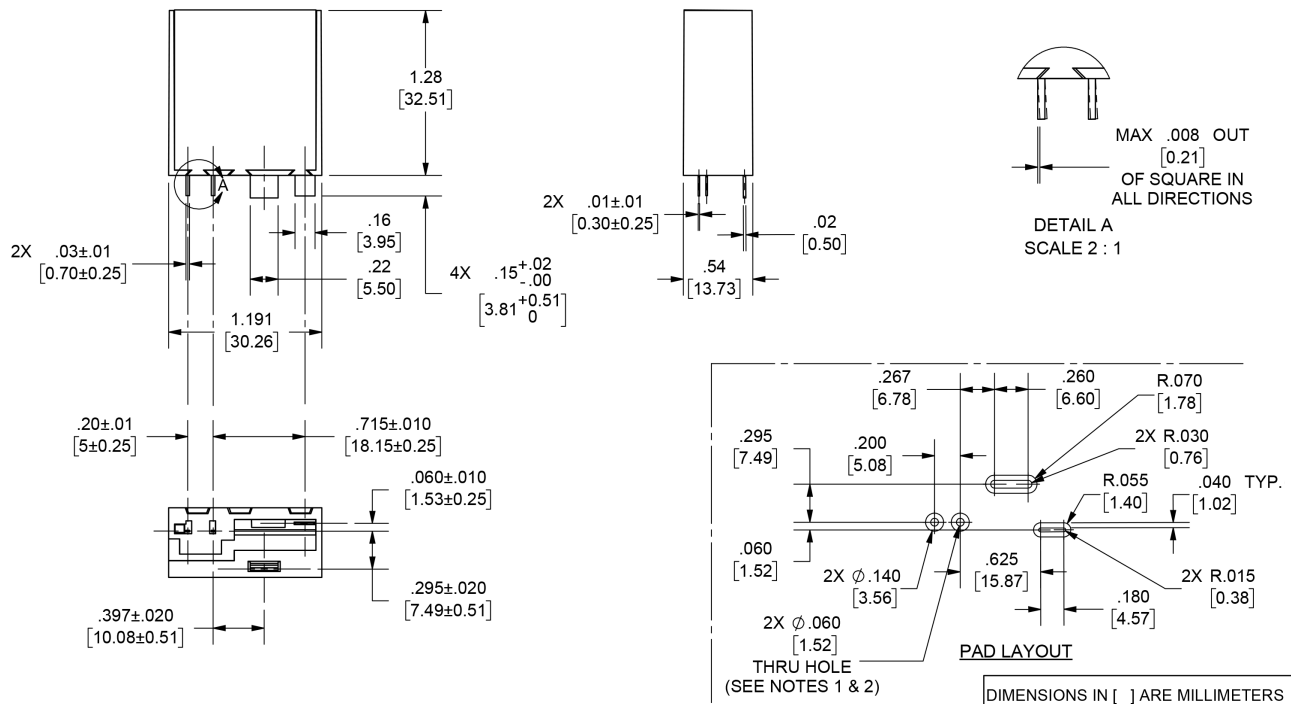
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General Product Specifications						
Mounting:		Short leads for PCB				
Single Impulse Surge Capacity:		25kA (8/20µs)				
Nominal Discharge Current Rating:		10kA				
Response Time:		≤25 ns				
Frequency:		50-60Hz				
Mechanical End-of-Life Indicator:		N/C Tact Switch (12VDC, 50mA)				
Operating & Storage Temperature:		-40°C to +85°C				
Enclosure:		Thermoplastic				
Flammability:		UL 94 V-0				
Catalog Number	Item Number	I _n	Surge Capacity	SCCR	Maximum Continuous Operating Voltage [MCOV, Uc]	Voltage Protection Rating [VPR] [UL 1449, 6kV, 3kA]
25TPMOVSL150	83050149	10kA	25kA	200kA	150VAC	600V
25TPMOVSL320	83050150	10kA	25kA	200kA	320VAC	1000V

Dimensional Drawing of TPMOV technology protected modules **TPMOV TECHNOLOGY**



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