



## PCB mounting SPDs

### Application in AC Power Electronics

UL Type 1ca SPD

**PTMOV/20PTMOV**



UL 1449 5th tested  
Global patented  
In: 10/20kA  
Imax: 25/50kA



Part No.	MCOV /Uc	In	Imax	Voltage protection rating (VPR) UL 1449	Short circuit current rating (SCCR) UL 1449
PTMOV150/S	150Vac	10kA	25kA	0.6kV	200kA
PTMOV180/S	180Vac	10kA	25kA	0.8kV	200kA
PTMOV320/S	320Vac	10kA	25kA	1.0kV	200kA
PTMOV420/S	420Vac	10kA	25kA	1.2kV	200kA
PTMOV550/S	550Vac	10kA	22kA	1.8kV	200kA
PTMOV690/S	690Vac	10kA	22kA	2.0kV	200kA
20PTMOV150/S	150Vac	20kA	50kA	0.6kV	200kA
20PTMOV320/S	320Vac	20kA	50kA	1.0kV	200kA
20PTMOV420/S	420Vac	20kA	50kA	1.2kV	200kA
20PTMOV550/S	550Vac	20kA	45kA	1.8kV	200kA

UL Type 1ca SPD

**SMTMOV/HSMTMOV**



UL 1449 5th tested  
Global patented  
In: 20kA  
Imax: 50/75kA



Part No.	MCOV /Uc	In	Imax	Voltage protection rating (VPR) UL 1449	Short circuit current rating (SCCR) UL 1449
SMTMOV150	150Vac	20kA	50kA	0.6kV	200kA
SMTMOV180	180Vac	20kA	50kA	0.8kV	200kA
SMTMOV275A	275Vac	20kA	50kA	0.8kV	200kA
SMTMOV320	320Vac	20kA	50kA	1.0kV	200kA
SMTMOV420	420Vac	20kA	50kA	1.5kV	200kA
SMTMOV550	550Vac	20kA	50kA	1.5kV	200kA
SMTMOV690	690Vac	20kA	40kA	2.0kV	200kA
HSMTMOV150	150Vac	20kA	75kA	0.6kV	200kA
HSMTMOV275A	275Vac	20kA	75kA	0.8kV	200kA
HSMTMOV320	320Vac	20kA	75kA	1.0kV	200kA

IEC/EN T1+T2 SPD

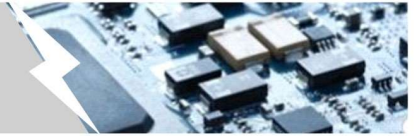
**MBPS**



IEC/EN 61643-11 tested  
In: 25kA  
Imax: 80kA  
Iimp: 12.5kA



Part No.	Uc	In	Imax	Iimp	Voltage protection level (Up) IEC	Short circuit withstand capacity (Iscsr) IEC
MBPS12.5V/75	75Vac	25kA	80kA	12.5kA	0.6kV	50kA
MBPS12.5V/150	150Vac	25kA	80kA	12.5kA	0.8kV	50kA
MBPS12.5V/180	180Vac	25kA	80kA	12.5kA	1.0kV	50kA
MBPS12.5V/275	275Vac	25kA	80kA	12.5kA	1.2kV	50kA
MBPS12.5V/320	320Vac	25kA	80kA	12.5kA	1.4kV	50kA
MBPS12.5V/350	350Vac	25kA	80kA	12.5kA	1.5kV	50kA
MBPS12.5V/385	385Vac	25kA	80kA	12.5kA	1.8kV	50kA
MBPS12.5V/440	440Vac	25kA	65kA	8kA	2.0kV	50kA
MBPS12.5V/480	480Vac	25kA	65kA	6kA	2.2kV	50kA
MBPS12.5V/600	600Vac	25kA	65kA	6kA	2.5kV	50kA
MBPS12.5V/750	750Vac	25kA	65kA	4kA	2.8kV	50kA



IEC/EN T2 SPD

**PVTMOV**



IEC/EN 61643-31 tested  
Global patented  
In: 10kA  
Imax: 25kA



Part No.	Ucpv	In	Imax	Voltage protection level (Up) IEC	Short circuit withstand capacity (Iscpv) IEC
PVTMOV48/S	48Vdc	10kA	25kA	0.3kV	1000A
PVTMOV100/S	100Vdc	10kA	25kA	0.5kV	1000A
PVTMOV180/S	180Vdc	10kA	25kA	0.6kV	1000A
PVTMOV200/S	200Vdc	10kA	25kA	0.7kV	1000A
PVTMOV300/S	300Vdc	10kA	25kA	1.0kV	1000A
PVTMOV400/S	400Vdc	10kA	25kA	1.2kV	1000A
PVTMOV500/S	500Vdc	10kA	25kA	1.6kV	1000A
PVTMOV600/S	600Vdc	10kA	25kA	1.9kV	1000A
PVTMOV800/S	800Vdc	10kA	25kA	2.5kV	1000A
PVTMOV1000/S	1000Vdc	10kA	25kA	2.7kV	1000A

IEC/EN T1+T2 SPD

**MPV50**



IEC/EN 61643-31 tested  
In: 20kA  
Imax: 50kA  
Iimp: 7.5kA



Part No.	Ucpv	In	Imax	Iimp	Voltage protection level (Up) IEC	Short circuit withstand capacity (Iscpv) IEC
MPV50/48-V	55Vdc	20kA	50kA	7.5kA	0.6kV	1000A
MPV50/75-V	100Vdc	20kA	50kA	7.5kA	0.6kV	1000A
MPV50/100-V	125Vdc	20kA	50kA	7.5kA	0.7kV	1000A
MPV50/150-V	170Vdc	20kA	50kA	7.5kA	0.8kV	1000A
MPV50/200-V	225Vdc	20kA	50kA	7.5kA	1.0kV	1000A
MPV50/300-V	350Vdc	20kA	50kA	7.5kA	1.2kV	1000A
MPV50/400-V	460Vdc	20kA	50kA	7.5kA	1.5kV	1000A
MPV50/500-V	560Vdc	20kA	50kA	6kA	2.0kV	1000A
MPV50/600-V	670Vdc	20kA	50kA	4.5kA	2.2kV	1000A
MPV50/750-V	800Vdc	20kA	50kA	4.5kA	2.5kV	1000A