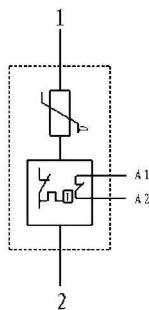




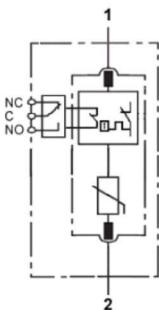
The PCB mounting SPD is easy integrated on printed circuit boards (PCB) and close to sensitive electronic element inside device, to minimize the potential impact of lightning events. The PCB mounting SPD will help to significantly reduce the cost of substantial repair, replacement, system downtime and the loss of revenue. PROSURGE's PCB mounting SPD is size optimization and space efficiency, which is a high performance but low cost solution for the industry of power electronics. It employs high energy Metal Oxide Varistor (MOV), and constructed with patented thermal protection and arc extinguishing technology which ensure safe disconnection while faulty current or abnormal voltage happened. Prosurge PCB mounting SPDs have comprehensively improved the safety performance and proven to be excellent fail-safe and self-protected protective devices because of patented technology.

- PCB mounting-Soldering**



Part No.	PTMOV	PVTMOV	2OPTMOV	SMTMOV	HSMTMOV
IEC/EN/UL category	II/T2/Type1ca	II/T2/Type 1ca	II/T2/Type1ca	II/T2/Type1ca	I+II/T1+T2/Type1ca
Max. continuous operating voltage Uc /Ucpv/MCOV	AC:150V~690V	DC:48V~1000V	AC:150V~550V	AC:150V~690V	AC:150V~320V
Nominal discharge current(8/20) In	10kA	10kA	20kA	20kA	15kA/20kA
Lightning impulse current (10/350) limp	-	-	-	-	8kA -
Max. discharge current(8/20) Imax	25kA	25kA	50kA	50kA	45kA/75kA
Fault indication	NA	NA	NA	A	A
Remote alarm contact	A	A	A	A	A
Operating temperature	-40~80°C	-40~85(110)°C	-40~85°C	-40~85°C	-40~85°C
Certification	UL,CE	TUV,CE	UL,CE	UL,CE	UL,CE

- PCB mounting- Pluggable while install with soldering socket**



Part No.	MPV50	SP D	MPVB12.5	MBPS12.5
IEC/EN/UL category	I+II/T1+T2/Type1ca	II/T2/Type1ca	I+II/T1+T2/Type1ca	I+II/T1+T2/Type1ca
Max. continuous operating voltage Uc /Ucpv/MCOV	DC:48V~750V	DC:85V~825V	DC:48V~750V	AC:75V~750V
Nominal discharge current(8/20) In	20kA	20kA	25kA	25kA
Lightning impulse current (10/350) limp	7.5kA	-	12.5kA	12.5kA
Max. discharge current(8/20) Imax	50kA	50kA	80kA	80kA
Fault indication	A	A	A	A
Remote alarm contact *	A	A	A	A
Operating temperature	-40~85°C	-40~85°C	-40~85°C	-40~85°C
Certification	TUV,CE	UL,CE	TUV,CE	TUV,CE

Note:

*: Need be used with socket.



PCB mounting SPDs Application in AC Power Electronics

ProSurge®
Maximum Safety in Surge Protection

UL Type 1ca SPD

PTMOV/20PTMOV



UL1449 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



UL1449 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 (Isccr) 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 (Isccpv) 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
Imp: 7.5kA



Part No.	Ucpv	In	Imax	Imp	Voltage protection level (Up) IEC	Short circuit withstand capacity (Isccpv) 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



PCB mounting SPDs

Application in DC Power Electronics

ProSurge®
Maximum Safety in Surge Protection

IEC/EN T1+T2 SPD

MPVB12.5



IEC/EN 61643-31 tested

In: 25kA

Imax: 80kA

Iimp: 12.5kA



Part No.	Ucpv	In	Imax	Iimp	Voltage protection level (Up) IEC	Short circuit withstand capacity (Iscpv) IEC
MPVB12.5/48-V	55Vdc	25kA	80kA	12.5kA	0.6kV	1000A
MPVB12.5/75-V	100Vdc	25kA	80kA	12.5kA	0.7kV	1000A
MPVB12.5/100-V	125Vdc	25kA	80kA	12.5kA	0.7kV	1000A
MPVB12.5/150-V	170Vdc	25kA	80kA	12.5kA	0.8kV	1000A
MPVB12.5/200-V	225Vdc	25kA	80kA	12.5kA	1.0kV	1000A
MPVB12.5/300-V	350Vdc	25kA	80kA	12.5kA	1.4kV	1000A
MPVB12.5/400-V	460Vdc	25kA	80kA	12.5kA	1.6kV	1000A
MPVB12.5/500-V	560Vdc	25kA	80kA	12.5kA	1.8kV	1000A
MPVB12.5/600-V	670Vdc	25kA	80kA	12.5kA	2.2kV	1000A
MPVB12.5/750-V	800Vdc	25kA	65kA	8kA	2.5kV	1000A

UL Type 1ca SPD

SPD



UL1449 5th tested

Global patented

In: 20kA

Imax: 50kA



Part No.	Upvdc	In	Imax	Voltage protection rating (VPR) UL 1449	Short circuit current rating (SCCR) UL 1449
SP85D	85Vdc	20kA	50kA	0.4kV	30kA
SP350D	350Vdc	20kA	50kA	0.9kV	100kA
SP460D	460Vdc	20kA	50kA	1.2kV	100kA
SP560D	560Vdc	20kA	50kA	1.5kV	100kA
SP670D	670Vdc	20kA	50kA	1.5kV	50kA
SP825D	825Vdcc	20kA	50kA	1.8kV	50kA