



Modules for DC PV SPD

Prosurge's SPM series are surge protection modules which are heavy MOV based devices and are constructed with Prosurge thermal protection and arc extinguishing technology, can be easily integrated in or mounted on PCBs. They are the best choice for global customers to develop PV SPD at minimum cost.

Rating:

- **Max. permitted DC voltage (Vpvc): 85V~825Vdc**
- **Surge capacity (8/20µs): 50kA**
- **Short circuit current rating (SCCR): 100kArms - tested without external CB or fuse**

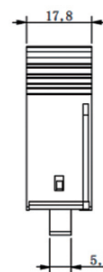
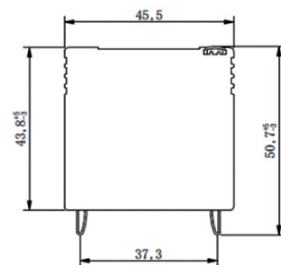
Technical Features:

- UL recognized Type 1CA SPD (ANSI/UL1449 4th), Type 2CA SPD (CSA-C22.2) for PV/ Photovoltaic system. (UL File No. E319871).
- Completely meet IEC61643-31:2018 & EN50539-11:2013.
- Quick thermal response and perfect circuit cutoff function due to special thermal disconnecter design with arc extinguishing device (Patent pending)
- Wide operating temperature range and high reliability
- High surge current capacity and low leakage current
- Provide a number of ways to use on PCB, such as permanent soldering or pluggable
- Floating remote signaling contact for fault indication while additional uses of PVD_Base

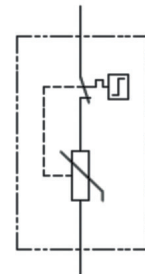


Part No.		Nominal Voltage (Vdc)	Max. Permitted DC Voltage, Vpvc (V)	Nominal Discharge Current, In (8/20µs) (kA)	Max. Discharge Current, Imax (8/20µs) (kA)	Voltage Protection Rating, VPR (kV)	Leakage (Quiescent)	SCCR Rating (kArms)
Type 1ca	Type 2ca							
SP85D	SP85D/C	48	85	20	50	0.4	< 2.5 µA	30
SP350D	SP350D/C	300	350	20	50	0.9	< 2.5 µA	100
SP460D	SP460D/C	400	460	20	50	1.2	< 2.5 µA	100
SP560D	SP560D/C	500	560	20	50	1.5	< 2.5 µA	100
SP670D	SP670D/C	600	670	20	50	1.5	< 2.5 µA	50
SP825D	SP825D/C	750	825	20	50	1.8	< 2.5 µA	50

Dimension drawing



Basic circuit diagram



PCB mounting method and illustration

PVD_Base is designed for pluggable SPM module to be mounted on the PCB and can be replaced easily, and with floating remote signaling contact for fault indication.

