

SD-3016

Low voltage drop diode for arrays of photovoltaic solar panels.

Maximum current 15Amp.

This device is planned to facilitate designers and installers of photovoltaic systems, in mounting the diode which stops the recirculation current, on strings of solar panels.

In fact, being galvanically isolated, it allows not to mount the IP20 protection nor insulate the body.

The adapter makes the DIN rail mounting quickly and safely. The working voltage allows its use for equipments according to the IEC 60364-7-712 standards.



FEATURES

- Electrically insulated
- High reverse blocking voltage
- Low thermal dissipation
- Galvanic insulation 2500 Vac for 5 sec.
- Maximum values for the inserted diode 30A 1600V
- Section of terminals 6,4 mm²

Symbols	Parameters	Conditions	SD 3016	SD 3018	Units
V _L	Max Working DC Voltage (IEC60364-7-712)	150 °C - 5 mA	800	900	V
V _{rrm}	Max reverse Voltage (IEC60364-7-712)	T _j =150°C	1 600	1800	V
V _f	Max forward voltage drop for diode	I _f = 10A I _f =12A	1,05 1,15	1,05 1,15	V
I _{avg}	Maximum Average current for diode	DC Conduction	12 @ 85	12 @ 85	A @ °C
I _{fsm}	Max non repetitive surge current	10ms-V _r =0	300	300	A
I ² t	Max. fusing capability	10ms-V _r =0	450	450	A2s
T _j (max)	Max. operating junction temperature		150	150	°C
T _c -max	Max case temperature	DC Conduction (single)	90	90	°C
T _c	Max heatsink temperature at 10A Max heatsink temperature at 15A	At 40°C room temperature	72 85	72 85	°C
	Dimensions (L x W x H)		24x82x105	24x82x105	mm
W	Weight		235	235	g

Last verify of electrical parameters made 15 Aprile 2011,.

WARNING: Agentech srl reserves the right to change features and dimensions without prior notice.