AGENTECH srl
POWER & TECHNOLOGY

M-SD2510

Diode for arrays of photovoltaic solar panels
Maximum Current 4 Amp

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 insulated, 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

- Electrical insulation for DIN rail mounting
- High reverse blocking voltage
- Good thermal dissipation
- Galvanic isolation 3750Vac for 5 sec.
- Section of terminals 6,4 mm^2

Symbols	Parameters	Conditions	SD 2510-A	SD 2510-B	Units
V_L	Max Working DC Voltage (IEC60364-7-712)	150 °C - 5 mA	500	1000	V
Vrrm	Max reverse Voltage (IEC60364-7-712)	Tj 175°C	1000	2000	V
Vf	Max forward voltage drop for diode	If = 10A	0,88	1,69	V
Iavg	Maximum Average current for diode	DC Conduction	4 @ 85	4 @ 85	A @°C
Ifsm	Max non repetitive surge current	10ms-Vr=0	383	383	A
I^2t	Max. fusing capability	10ms-Vr=0	733	733	A2s
Tj(max)	Max. operating junction temperature		175	175	°C
Tc-max	Max case temperature	DC Conduction (single)	90	90	°C
Tc	Max heatsink temperature	At 40°C room temperature	63	83	°C
	Dimensions (L x W x H)		39x77x35	39x77x305	mm
W	Weight		65	65	g

Last verify of electrical parameters made on January 15, 2010.

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