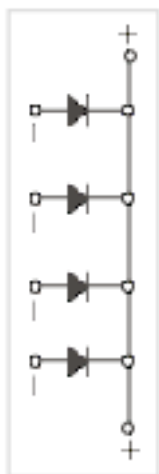


4-SD3516

Direct low-dropout quadruple diode for array of photovoltaic solar panels.

This module is planned to facilitate designers and installers of photovoltaic systems, on installation and thermal calculation of the field panel. In fact, the installation of the heat-sink outside the box (models K and Y), allows designers to improve the performance of temperature inside the panel. The neoprene seal makes a watertight mounting on the box (see assembly drawings).



FEATURES

- Electrically insulated
- High reverse blocking voltage
- Good thermal dissipation
- Galvanic insulation 3750Vac for 5 sec.
- Maximum values for the inserted diode 35A 1600V
- The working voltage allows its use on equipments in accordance with the IEC 60364-7-712 standards.

CURRENT EACH DIODE	TOTAL POWER DISSIPATION (Watt)	HEAT- SINK TYPE	DIMENSIONS
	4SD3516		
2Amp	10.2	Internal panel Mod J-5016	120x105x38
6Amp	29.3	Internal panel Mod J-5016	120x105x38
10Amp	50.0	External panel Mod K-5151	100x150x40
15Amp	75.0	External panel Mod Y-5151	100x200x40

Symbols	Parameters	Conditions	4SD3516	Unità
V_L	Max Working DC Voltage (IEC60364-7-712)	150 °C - 5 mA	800	V
V_{rrm}	Max reverse Voltage (IEC60364-7-712)	T_j 150°C	1600	V
V_f	Max forward voltage drop for diode	$I_f = 15Amp$ $I_f = 10Amp$	1,19 1,05	V
I_{avg}	Maximum Average current for diode	DC Conduction	15 @ 85	A @ °C
I_{fsm}	Max non repetitive surge current	10ms- $V_r=0$	480	A
I^2t	Max. fusing capability	10ms- $V_r=0$	1150	A2s
$T_j(max)$	Max. operating junction temperature		150	°C
T_c-max	Max case temperature	DC Conduction	100	°C
T_h-max	Max heatsink temperature	At 40°C room temperature	88	°C
	Dimensions (L x W x H)		94x45x15	mm
P	Weight		80	g

The device is compliant with the 2006/95/CE low voltage standards and to the EN 50178 harmonized standards.

Last verify of electrical parameters made on May 19, 2010.

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