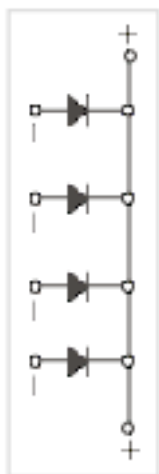


4-SD3016

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 30A 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
	4SD3016		
2Amp	9.2	<i>Internal panel Mod J-5016</i>	<i>120x105x38</i>
6Amp	27.6	<i>Internal panel Mod J-5016</i>	<i>120x105x38</i>
10Amp	48.0	<i>External panel Mod K-5151</i>	<i>100x150x40</i>
15Amp	71.0	<i>External panel Mod Y-5151</i>	<i>100x200x40</i>

Symbols	Parameters	Conditions	4SD3016	4SD3018**	Unità
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	1600	1800	V
V_f	Max forward voltage drop for diode	$I_f = 12Amp$ $I_f = 10Amp$	1,15 1,05	1.15 1,05	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^2t	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	100	100	°C
T_h-max	Max heatsink temperature	At 40°C room temperature	85	85	°C
	Dimensions (L x W x H)		94x45x15	94x45x15	mm
P	Weight		80	80	g

**** SUPPLIED UPON REQUEST**

Last verify of electrical parameters made on April 15, 2011.

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