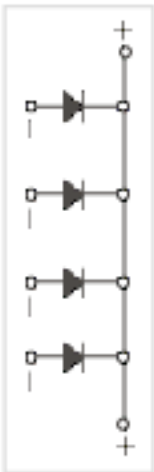




4-SD2510

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 >4000Vac for 5 sec.
- Maximum values for the inserted diode 25A 2000V
- 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
	4SD2510-A	4SD2510-B		
2Amp	9.2	18.4	Mod J	100x100x40
6Amp	27.6	55.2	Mod J	100x100x40
10Amp	46.0	92.0	Mod K	112x150x68
15Amp	69.0	138.0	Mod Y	112x235x68

Symbols	Parameters	Conditions	4SD2510-A	4SD2510-B	Units
V_L	Max Working DC Voltage (IEC60364-7-712)	150 °C - 5 mA	500	1000	V
V_{rrm}	Max reverse Voltage (IEC60364-7-712)	T_j 175°C	1000	2000	V
V_f	Max forward voltage drop for diode	$I_f = 15A$	1,15	2,20	V
I_{avg}	Maximum Average current for diode	DC Conduction	15 @ 85	15 @ 85	A @°C
I_{fsm}	Max non repetitive surge current	10ms- $V_r=0$	383	383	A
I^2t	Max. fusing capability	10ms- $V_r=0$	733	733	A2s
$T_j(max)$	Max. operating junction temperature		175	175	°C
T_c-max	Max case temperature	DC Conduction	100	100	°C
T_h-max	Max heatsink temperature	At 40°C room temperature	85	85-90	°C
	Dimensions (L x W x H)		94x45x15	94x45x15	mm
W	Weight		80	80	g

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

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