

2-SD3516D

Insulated module with common cathode dual diode for strings of photovoltaic panels. Maximum current 15A.

This new low direct dropout double-diode, is planned to facilitate designers and installers of photovoltaic systems, on the project of the field panel, and in the mechanical mounting of the diode which stops the recirculation current on the strings of photovoltaic panels.

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

The working voltage allows its use on plants according to the IEC 60364-7-712 standards.



FEATURES

- Electrically insulated for heat-sink mounting
- Reverse blocking voltage (1600V)
- Low direct dropout
- High capacity for choosing the fuse
- Low thermal dissipation
- Max values of the inserted diode 35A 1600V
- Galvanic insulation >2500Vac for 5 sec.
- Terminals 'section: 6,3mm faston and screw terminal M4 (maximum mounting torque 1,5Nm)

The device is compliant with the Low Voltage 2006/95/EC Directive and the EN 50178 harmonized standards

Symbols	Parameters	Conditions	2-SD 3516D	Units
V_L	Max Working DC Voltage (IEC60364-7-712)	150 °C - 5 mA	800	V
V_{rrm}	Max reverse Voltage	$T_j=150^{\circ}\text{C}$	1600	V
V_f	Max forward voltage drop for diode	$I_f = 10\text{A}$ $I_f = 15\text{A}$	1,05 1,10	V
I_{avg}	Maximum current on each 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	A ² s
$T_j(\text{max})$	Max. operating junction temperature		150	°C
$T_c\text{-max}$	Max case temperature	Dc Conduction	90	°C
T_c	Heatsink working temperature at 10A Heatsink working temperature at 15A	at 40°room temperature	72 85	°C
	Dimensions (L x W x H)		24x77x90	mm
P	Weight		200	g

Last verify of technical parameters made on April 2011

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