

HSD-3022FF/D

High voltage Insulated diode to be used on strings of photovoltaic panels, Max Current 15 A

This new diode is planned to facilitate designers and installers of photovoltaic systems, on installation and thermal calculation of the field panel, with direct voltages up to 1100Volts, 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
- High reverse blocking voltage (2200V)
- Low voltage dropout
- Low thermal dissipation
- Max values of the inserted diode 30A 2200V
- Galvanic insulation >3200Vac for 5 sec.

HSD-3022BF/D



The diode model HSD-3022BF/D is available with the same heat-sink. It has the same electrical characteristics of the HSD-3022FF/D and mounts faston and bush for its connection.

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

Symbols	Parameters	Conditions	HSD-3022FF/D HSD-3022BF/D	Units
V_L	Max Working DC Voltage (IEC60364-7-712)	150 °C - 5 mA	1100	V
V_{rrm}	Max reverse Voltage (IEC60364-7-712)	$T_j=150^{\circ}\text{C}$	2 200	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- $V_r=0$	370	A
I^2t	Max. fusing capability	10ms- $V_r=0$	685	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)	65X24X90		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.