



The New "By-pass" Diode

Friday, 23 November 2007

Sirectifier Global Corp. (SGC) announced that the new "By-pass" diode which with lower forward voltage drop (VF) for many kinds of DC to DC application especially in the solar cell fields.

SGC make used of the new material of the alloy barrier instead of old one for obtained the characteristic of lower VF. Therefore, the conduction loss had reduced because of the lower VF on the system such as PV junction box.

The "By-pass" diode connected across one or more solar cells in a solar module, such that the diode will conduct if the cell(s) become reverse biased. It protects these solar cells from thermal destruction in case of total or partial shading, broken cells, while other cells are exposed to full light.

SGC is capable to offer 40A and below rating in a single die for solar cell application:

- (1) 50V series: $VF < 0.55V$, typ at 0.5V
- (2) 70V series: $VF < 0.65V$, typ at 0.57V
- (3) 1,000V series: $VF < 1.2V$, typ at 1.1V

For further details, please contact SGC at the location nearest you.

Sales Representatives:

U.S.A. -

113 Barksdale Professional
Center in the City of Newark,
County of New Castle, Delaware
e-mail: sgc@sirectsemi.com

China -

Room.708, Building, 23, Fenherili
Garden Renmingnan Rd.,
Longhua district, Shenzhen
e-mail: silicontek@ic37.com

Taiwan -

5F, NO. 316, Chongyang Rd.,
Nangang Chiu, Taipei, Taiwan
e-mail: se@sirectsemi.com

Thailand -

29/123 F.8 Siam Condo. Rama 9
Rd., Huaykwang, Bangkok
10310, Thailand
e-mail: th@sirectsemi.com