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New GPP100MS Photovoltaic Solar Panel Protection Rectifier

The News:

New 10 A, 1000 V Photovoltaic Solar Panel Protection Rectifier in P600 Axial Package

Vishay Intertechnology, Inc. (NYSE: VSH) introduces a new photovoltaic solar panel protection rectifier with high current rating, high blocking voltage, and maximum operating junction temperature of 175 °C in the P600 axial package.

Product Benefits:

- High current rating of 10 A and high reverse voltage of 1000 V
- P600 axial package is suitable for solar-related applications
- Low thermal resistance
- 175 °C maximum operating junction temperature
- Glass passivated chip
- Low forward voltage drop of 0.80 V @ 10 A
- High forward surge capability of 440 A
- Solder dip 275 °C max. 10 s, per JESD 22-B106
- RoHS compliant and in accordance to RoHS Directive 2011/65/EU



The Key Specifications:

Vishay P/N	I _F (A)	V _{RRM} (V)	V _F at I _F and T _J			I _{FSM} (A)	T _J max (°C)
			V _F (V)	I _F (A)	T _A (°C)		
GPP100MS-E3	10	1000	0.8	10	125	440	175

Market Applications:

- Solar panel polarity protection



New Product Info



Product Group: Vishay General Semiconductor, Rectifiers / **October 2012**

The Perspective:

Based on glass passivated chip junction technology, the 10 A, 1000 V GPP100MS offers a maximum operating junction temperature of 175 °C in the P600 axial package, which is suitable for use in solar panel polarity protection applications.

Availability: Samples and production quantities of the new rectifier are available now, with lead times of four weeks for larger orders.

To access the product datasheets on the Vishay Web site, go to <http://www.vishay.com/doc?89953> (GPP100MS)

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