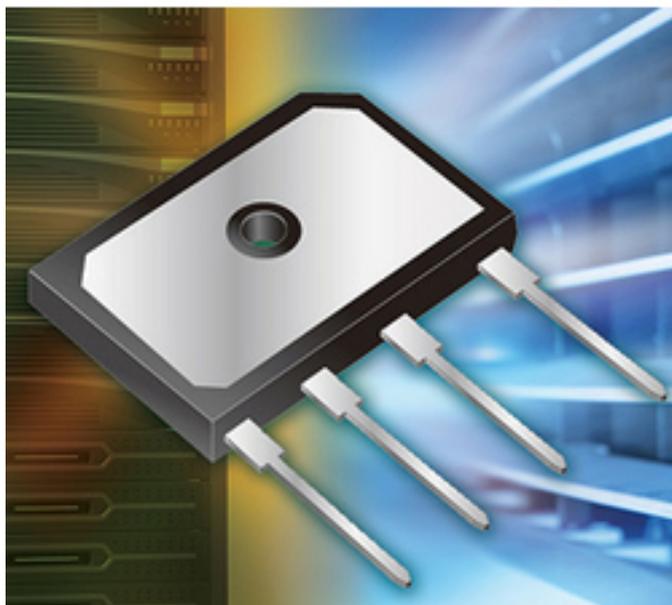


Rectifier Series Features 1500-V Dielectric Strength

Offering Includes Industry's First 45-A Single In-Line Rectifiers in PowerBridge Package

Vishay Intertechnology, Inc. (NYSE: VSI) today introduced a new series of enhanced high-current-density PowerBridge™ rectifiers with current ratings of 30 A to 45 A, maximum peak reverse voltage ratings of 600 V to 1000 V, and a high case dielectric strength of 1500 V. The series' 45-A devices are the industry's first single in-line bridge rectifiers in the PowerBridge package, which features a body size of 30 mm by 20 mm with a 3.5-mm profile.



Compared to larger-size bridge rectifiers on the market, the advanced thermal construction of the PowerBridge devices allows heat to dissipate more efficiently. The PowerBridge rectifiers are thus able to provide the same power ratings as larger packages

while requiring smaller heat sinks.

The single in-line rectifiers are the ideal choice for ac-to-dc rectification in switchmode power supplies for desktop PCs, servers, PDP TVs, LCD TVs, and audio/video systems; power inverters in home appliances such as refrigerators, washing machines, air conditioners, and induction cookers; and primary rectification circuits for switchmode power supplies in telecommunication systems.

For OEM vendors, the new devices offer compatible package, lead pitch, and pin layouts to the conventional GSB-55 package. This saves time by allowing the same PCB layout to be used for a wide range of bridge rectifier voltage and current ratings. The rectifiers' + 275 °C, 10-second solder dipping process per JEDEC 22-8306 enables high reliability in wave soldering or manual soldering.

Device Specification Table:

Part	Description	Package	V _{RM} @ I _{FM} per θ_{JC} , T _C
83306-10	600 V to 1000 V, 30-A single-phase bridge rectifier	S	670 V typ @ 15 A, +125 °C
83306-10	600 V to 1000 V, 35-A single-phase bridge rectifier	S	690 V typ @ 17.5 A, +125 °C
84006-10	600 V to 1000 V, 40-A single-phase bridge rectifier	S	694 V typ @ 20 A, +125 °C
85006-10	600 V to 1000 V, 45-A single-phase bridge rectifier	S	695 V typ @ 22.5 A, +125 °C

Rectifier Series Features 1500-V Dielectric Strength

Published on Electronic Component News (<http://www.ecnmag.com>)

Samples and production quantities of the PowerBridge rectifiers are available now, with lead times of eight weeks for larger orders. Pricing for U.S. delivery begins at \$1.00 per piece in quantities below 10,000. Follow Vishay products for power management applications at www.vishay.com. [1]

Source URL (retrieved on 10/24/2014 - 9:33pm):

<http://www.ecnmag.com/products/2009/12/rectifier-series-features-1500-v-dielectric-strength>

Links:

[1] <http://www.wallstcom.com/email/auto/trkc.cfm?OI104=2195&pn=wallstreet&sbid=33308&rd04=http://twitter.com/VishayPowerMgmt>