

PRESS RELEASE

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New 1.8kV, 'Wespack' rectifier diode



Westcode Semiconductors Limited (An IXYS company) announces a new addition to its ground breaking 'Wespack' product range. The new rectifier diode has a voltage rating up to 1.8kV and nominal RMS current rating of 6965A. The new diode is packaged in low profile 14.5mm (0.57") thick, 38mm (1.1") pole face hermetic pressure contact package.

The new device is manufactured using an all diffusion process to give an optimised vertical structure with a low forward voltage drop of 1.2V at 3000A. The ground breaking 'Wespack' package with its reduced electrode thickness gives very low thermal resistance from the active die to the external heat sink. In combination these characteristics result in a device, which maximises power control in the smallest package footprint. When the new device is compared to a conventionally packaged device in a 26mm (1.02") thick package with the same 58.5mm (2.3") overall diameter, the new device presents twice the nominal current rating and 40% less weight.

The devices are suitable for all types of cooling including: Forced air, water chillers as well as fully immersed cooling systems such as oil. In particular, the high power rating and small footprint of the device permit for very compact water chiller designs, with up to 70% less volume than those designed around conventionally packaged devices. The new diode is suitable for all types of rectifier applications requiring a device with voltage rating up to 1.8kV, including; Front-end rectifiers, chemical power supplies, welding etc.

The device is available in three standard voltage class options; W3864QK100, W3864QK140 & W3864QK180, which are rated at 1.0kV, 1.4kV & 1.8kV respectively.

For data sheets please go to the Westcode website at www.westcode.com or please contact us at (email: WSL.sales@westcode.com) or telephone: +44 (0) 1249 444524 for quotation.

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