

IXYS UK Westcode introduces new 2.2kV **Wespack rectifier diode**



IXYS UK Westcode Ltd. announces the launch of a new addition to its '**Wespack**' rectifier diode portfolio. The new 2.2kV rectifier diode is the first in a new package size, presenting the ultimate in power rating for weight and volume, without compromising on quality & reliability.

The new device comprises 50mm die directly bonded to a metallic disc, using IXYS UK's most advanced processing and the device is packaged in an low profile '**Wespack**' outline. The structure offers both optimised transient thermal conditions and overall robustness while limiting the overall package size. The thermal capacity of the metal disc and its direct fusion to the silicon enhances performance and presents excellent transient thermal and surge current ratings; while the low profile package minimises the thermal path from the silicon to the heat sink. The optimised thermal resistance of the package allows for maximum current rating with an average current of 4295 amperes, at a heat sink temperature of 55°C. The device has a surge rating of 31,000 amperes and a maximum operating junction temperature of 175°C.

The new package offers an increase of more than 25% in current rating when compared to a standard 26mm thick package with the same silicon content and is less than half the package weight.

Designations are: W4295NK200 for the 2000V device and W4295NK220 for the 2200V device. Typical applications include; front end rectifiers and bridges, DC power supplies, utilities and chemical power supplies; particularly in applications where weight and performance need to be optimised.

For more information, please contact IXYS

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