

PRESS RELEASE

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“Wespack” a new concept in Phase Control Thyristor design



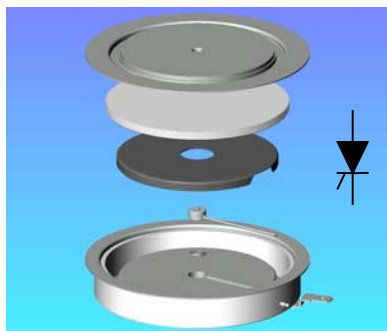
Westcode Semiconductors Limited (An IXYS company) announces a new concept in Phase Control Thyristors. Introducing the first of a new range of contemporarily designed Wespack low profile, fully hermetic press-pack capsule devices that are compatible with existing mechanical designs.

Wespack dramatically increases power density, while reducing the weight and cost versus conventional ceramic thyristor packaging.

The first of these new Wespack devices to be available are N2593MK180 and N2367MK220. These revolutionary new devices have current ratings of 2593A and 2367A, voltage ratings of 1800V and 2200V respectively and are encapsulated in a hermetic, 50mm (2”) diameter pole face, press-pack package.

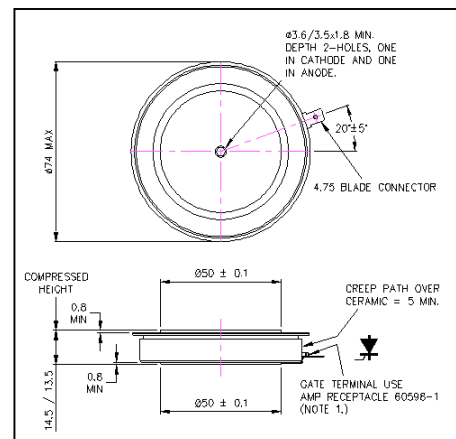
Wespack offers the maximum current rating and lowest thermal resistance for weight and volume without compromising on quality and reliability. A Wespack phase control thyristor from IXYS offers a cost effective and space saving alternative to conventional designs - More power, less package. The Wespack outline is capable of meeting the requirements of EN50124-1:2001, Part 1 [Basic requirements – clearances and creepage distances for all electrical and electronic equipment] when appropriately applied, and offers over three times the power to weight ratio of a traditional TO-200 style housing of the same current rating.

The N2593MK180 and N2367MK220 weigh in at only 260grams (0.57 lbs) compared to 1kg (2.2 lbs) for a similarly rated device in a TO 200 type outline. Saving 4.4kg (9.68 lbs) in a typical 3 phase bridge.



The internal build of the new Wespack package has been reversed from that used in the traditional TO-200 style housing, with the weld flange on the anode side, simplifying the internal construction.

The new “Wespack” thyristor slimline package is 14mm (0.55”) thick, optimising the thermal path from silicon to cooling system.



The hermetic ceramic package is suitable for all cooling options including forced air, liquid, plus total immersion systems such as oil and fluoroinert. The lower profile of the package allows for a much more compact subassembly increasing realisable power for a given volume and weight. In forced air systems, the reduced component height allows the cooling fins to be brought closer together, thus reducing wasted air flow and increasing the flow where it is need in the fins.

The N2593MK180 and N2367MK220 represent the first in a new product range from IXYS. Further introductions will include a 1400V device in the same 50mm (2") pole face housing. To be followed by two further package sizes with 38mm (1.5") and 68mm (2.7") diameter pole faces later this year. These two additional devices will also be available in three voltage classes; 1400V, 1800V and 2200V and will offer the same slimline 14mm thick profile.

Wespack thyristors are suited to all phase control applications such as soft starts, industrial drives and controls, wind power converters, electrochemical power supplies, and welding.

Data sheets are available on www.westcode.com. For a quotation please contact us at (email: WSL.sales@westcode.com) or telephone: +44 (0)1249 444524.

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