

PRESS RELEASE

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New 2.8kV large area fast thyristor



Westcode Semiconductors Limited (An IXYS company) announces the launch of a new 8000A, 2.8kV, large area fast thyristor. The new introduction extends Westcode's world-class range of fast switching power thyristors. The new device represents the highest current rating fast switching thyristor in this voltage class and breaks new ground for the maximum power that can be controlled in a single converter.

The new device has an average current rating of 4001 amperes for a sink temperature of 55°C and is encapsulated in two options of fully hermetic press pack outlines, with pole face electrodes of 100mm in diameter; options are industry standard 36mm and 26mm thick packages. The part designations are R3968FC28x for the 2.8kV, 36mm thick package and R3968FD28x for the 2.8kV, 26mm device. 2kV & 2.4kV versions are also available as standard. The advanced vertical structure of the silicon and highly distributed gate design offers unrivalled switching characteristics, without compromising the forward conduction losses. All device types can be supplied to one of four tq (turn-off time) limits, 60µs, 65µs, 70µs & 100µs – identified by the letters K, L, M & N replacing the x in the part number. Where required, devices can be selected for their reverse recovery characteristics or supplied in explosion rated packages.

The very high current rating of the R3968Fxxxx offers the opportunity to build much higher power, resonant power supplies: for applications such as induction melting and billet heating. With a potential equipment power rating up to and above 10 Megawatts, without the need for so many parallel device paths. The optimised turn-off time presents options for switching frequencies up to 8kHz, or higher by multiplexing of power bridges. Other potential applications include pulsed power and resonant magnetic power supplies.

For a data sheet 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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