

PRESS RELEASE

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Extended temperature range for fast diode



Westcode Semiconductors Limited (An IXYS company) announce an increase in maximum junction temperature from 125°C to 150°C for 600V fast recovery diode. The higher operating temperature of the diode allows for a 30% increase in operating current over previously available product, without effecting the principle device characteristics.

The M2408NC020 and M2408NC060 diodes, rated at 200V and 600V respectively, are encapsulated in a fully hermetic industry standard 26mm thick package. These diodes represent an enhanced version of Westcode fast recovery diode type SM06CXC504, and are fully compatible to be substituted in all applications designed around the old product, without any electrical or mechanical modifications. The increased maximum junction temperature allows the average current rating to be increased from 1825A to over 2400A, while maintaining the same on-state and turn-off performance. The improved product is also now available in a new 'low' profile housing option: M2408ND020 and M2408ND060. The new package is 21mm thick and weighs 120 grams less than the standard housing, giving a lighter more compact system.

These diodes are suited to all applications, in this voltage class, which require fast switching and low recovery losses, typically; High frequency welders, battery chargers, electric vehicles and drives. For arduous applications and environments which require intrinsically safe operating conditions, such as marine, off-shore and mining, a device with an enhanced rupture capability is also available. A special designed internal construction limits plasma ejection under catastrophic failure conditions: device part numbers M2408NT020 and M2408NT060.

For a data sheet or quotation please contact us at (email: WSL.sales@westcode.com) or telephone: +44 (0)1249 444525.

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