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All devices pass rigorous test verification and engineering application assessment

High Efficiency Bipolar Range

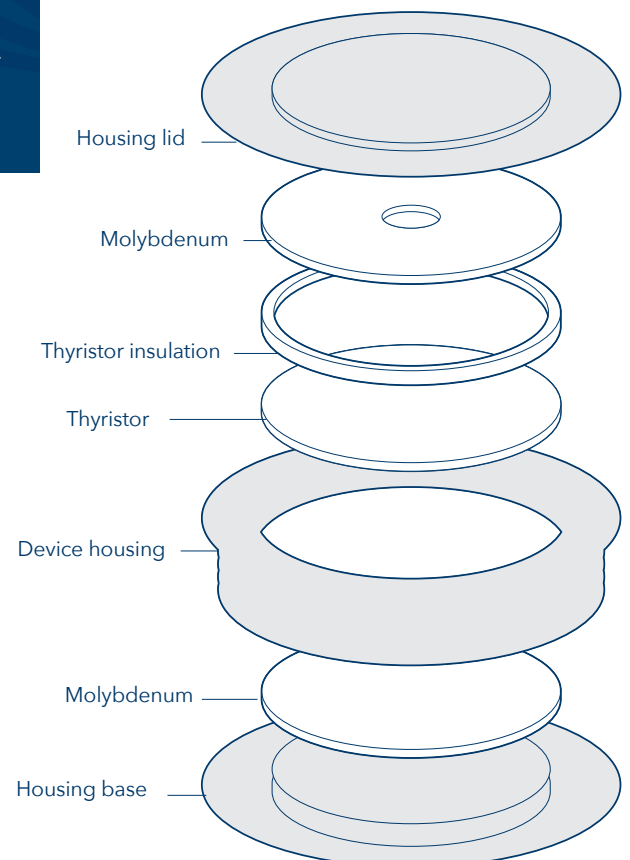
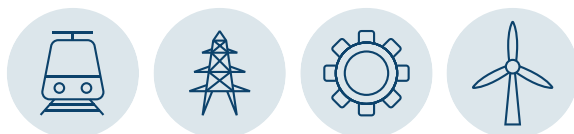
Dynex design and manufacture devices tailored for particular applications with lower losses, higher blocking voltages and higher current capability.

The range consists of Phase Control Thyristors, Gate Turn Off Thyristors, Pulse Power Thyristors, Asymmetric Thyristors, Fast Recovery Diodes, Rectifier Diodes and Flat Base Rectifier Diodes.

Key Features

- ✓ Thinner silicon, lower conduction losses
- ✓ Unique bevel maximises current and surge ratings
- ✓ Advanced implanted aluminium diffusion techniques
- ✓ Full blocking voltage capability at line frequencies from -40°C to +125°C
- ✓ Double side cooling
- ✓ High surge current capability
- ✓ Fault protection
- ✓ Double side cooling
- ✓ Low losses for high efficiency
- ✓ Low thermal resistance

Applications



Thyristor Range

Gate Turn-off



- ✓ Double side cooling
- ✓ High reliability in service
- ✓ High voltage capability
- ✓ Fault protection without fuses
- ✓ High surge current capability
- ✓ Turn-off capability

Phase Control



- ✓ Currents up to 7610 A
- ✓ Voltage up to 8500 V
- ✓ Full blocking voltage capability at line frequencies from -40°C to +125°C
- ✓ High surge current capability
- ✓ High di/dt turn-on capability
- ✓ High dV/dt capability

Asymmetric Bypass



- ✓ Low dynamic on-state voltage for high-performance fault protection
- ✓ Enhanced surge rating
- ✓ High dV/dt capability >10kV/μs
- ✓ High di/dt capability
- ✓ Device can be switched from low anode-cathode voltage

Pulse Power



- ✓ Asymmetric design
- ✓ Single or repetitive pulse applications
- ✓ Very high di/dt capability
- ✓ Fully floating silicon technology
- ✓ High "shot life"
- ✓ High reliability / life compared to vacuum tubes
- ✓ Designed as a closing switch

Diode Range

Rectifier Diodes



- ✓ Currents up to 8800A
- ✓ Voltage up to 8500 V
- ✓ High overload capability
- ✓ Low losses for high efficiency
- ✓ Hermetically sealed for long operational life
- ✓ Low thermal resistance

Flat Base Rectifier Diodes



- ✓ Currents up to 860A
- ✓ Voltage up to 4800V
- ✓ Low losses for high efficiency
- ✓ Hermetically sealed for long operational life
- ✓ Available anode to base and cathode to base

Fast Recovery Diodes



- ✓ Currents up to 860A
- ✓ Voltage up to 4800V
- ✓ Low losses for high efficiency
- ✓ Hermetically sealed for long operational life
- ✓ Available anode to base and cathode to base