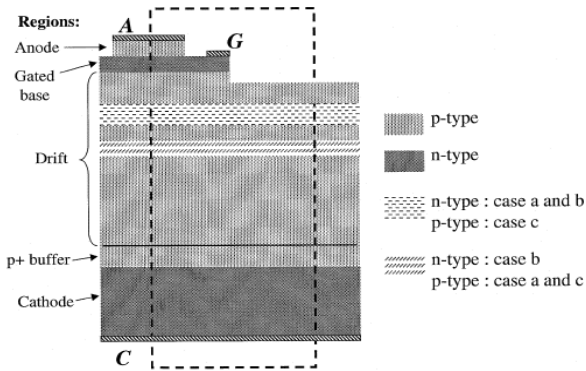


# Technology Brief

## SiC GTO Thyristors

### US Patents

6,900,477 \_\_ 6,734,462  
6,703,642 \_\_ 6,427,686



### OVERVIEW

This technology includes new operational techniques, growth requirements, and structures to improve the power handling capability of SiC gate turn-off thyristors.

### POTENTIAL USES

Potential uses include the design and production of high power, high temperature devices for use as semiconductor electronic switches.

### ADVANTAGES

- Improved power handling
- Improved turn-off gains
- Faster switching
- Higher voltage blocking
- Higher temperature operation

### DEVELOPMENT STATUS/OPPORTUNITY

The technology was developed at a US Army Research Lab. Structures have been designed and evaluated through simulation. Four US patents have been issued relating to this technology. Partners are sought for licensing, development & commercialization.



*Contact for commercialization opportunities*  
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