

## R&D Electronics Newsletter (2016 Issue 3)

Welcome to our 3rd issue of newsletters in 2016!

**R&D Electronics** is the **exclusive marketing and sales channel for TECHSEM**, which is a well-known Chinese developer and manufacturer of **diode / thyristor modules and capsules** with 50 years experience. In our well-structured B2B e-commerce-portal [www.rd-ebusiness.com](http://www.rd-ebusiness.com) you can quickly find and order all products with the help of the integrated user-friendly search and ordering process. The online-shop is presented in **English, German and Portuguese** language.

In this issue we would like to introduce some special power modules which TECHSEM can offer addition to the standard products.

Also this year R&D Electronics will exhibit together with TECHSEM at PCIM fair in Nuremberg.

### Visit us at our booth during the PCIM in Nuremberg



Visit us at PCIM Europe:  
From 10 - 12 May 2016 in Nuremberg, Germany,  
Hall 9, Stand 9-429

We are looking forward to meeting you. For meeting arrangement please contact us via [info@rd-ebusiness.com](mailto:info@rd-ebusiness.com) or by phone +852-3421-2216.

All of our newsletters are archived in our online-shop. More information is available under: [www.rd-ebusiness.com](http://www.rd-ebusiness.com)

Yours faithfully  
R&D Electronics Team

## SPECIAL POWER MODULES FROM TECHSEM

### 1. Extra-High Power Module:



- Current: 800-1200A;
- Voltage: 600 – 3600V;
- Circuit Topology: Diode-Diode, Thyristor-Diode, Thyristor-Thyristor, Single Diode and Single Thyristor;
- Main Applications: Soft starter, Rectifier for drives applications, Power controllers, Rectifier for UPS, Battery chargers, Static switches, Bypass switches, Crowbar application.

### 2. Water-Cooled Power Module:



- Smaller size for same power;
- Cost efficient;
- Circuit Topology: Diode-Diode, Thyristor-Diode, Thyristor-Thyristor, Single Diode and Single Thyristor;
- Main Application: Soft starter, Rectifier for drives applications, Power controllers, Rectifier for UPS, Battery chargers, Static switches, Bypass switches, Crowbar application.

### 3. Special Topology Module:

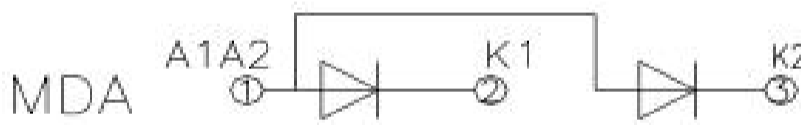


Fig.1: Common Anode Diode Module

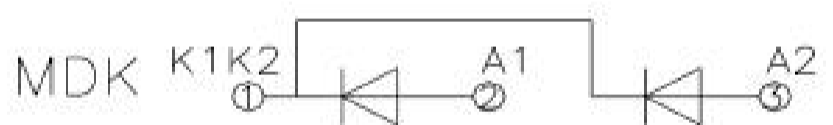


Fig.2: Common Cathode Diode Module

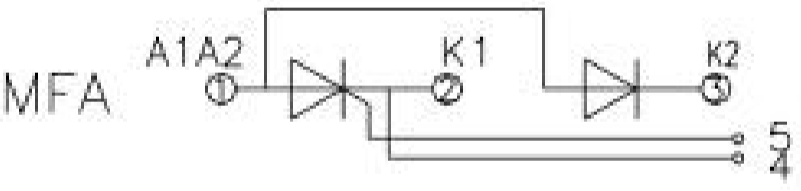


Fig.3: Common Anode TD Module

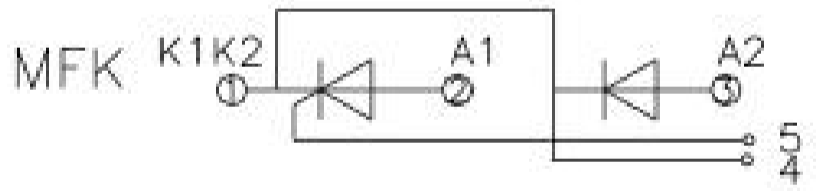


Fig.4: Common Cathode TD Module

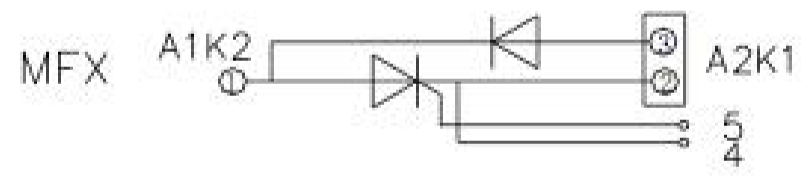


Fig.5: Antiparallel TD Module

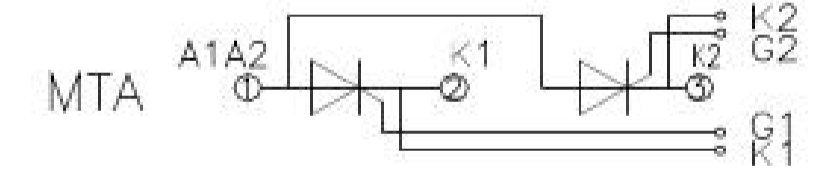


Fig.6: Common Anode Thyristor Module

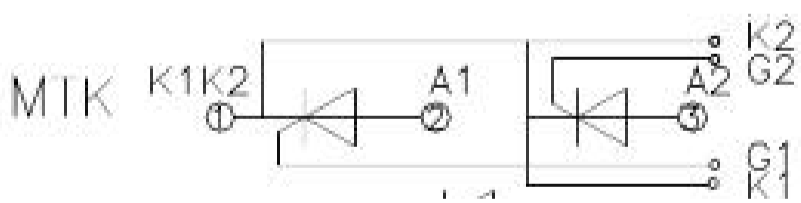


Fig.7: Common Cathode Thyristor Module

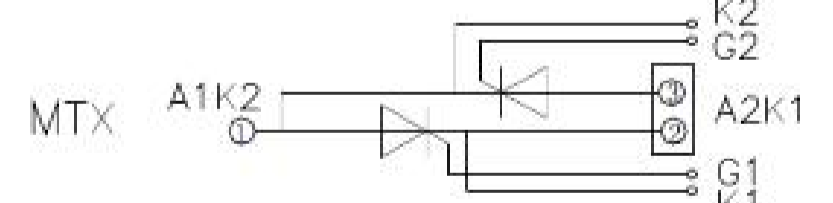


Fig.8: Antiparallel Thyristor Module

### 4. Fast Turn-off / Fast Recovery Module:



- $t_q=12\mu s$  at  $T_c=100^\circ C$ ;
- $t_{rr}=1.5\mu s$  at  $T_c=140^\circ C$ ;
- Current: 50-400A;
- Voltage: 600-1800V.
- Main Applications: Inverter, Inductive Heating, Welder, Chopper, Various Switching Power Supply.

## Free Samples

You want to test our products? No problem. We provide now for certain types of products with limited quantities as free samples at your disposal. For the available products, you only need to pay for the shipping costs from Hong Kong to your delivery address. Do not hesitate to register as customer in our shop and contact us for free samples of your choice: [www.rd-ebusiness.com](http://www.rd-ebusiness.com).