

# R&D Electronics Newsletter (2014 Issue 14)

Welcome to our 14th issue of newsletter!

R&D Electronics is the exclusive sales channel of TECHSEM, which is a well-known Chinese developer and manufacturer of diode / thyristor modules and capsules with more than 48 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 three main product groups, which are diode thyristor module, bridge rectifier and diode / thyristor in capsule packaging (disc cells), are available in the shop. Except English and German language, our online-shop is now also available in Portuguese. Please visit our Portuguese web here: [www.rd-ebusiness.com.br](http://www.rd-ebusiness.com.br).

In this issue we would like to show a summary of the three main product groups of TECHSEM and their features. In addition, we are particularly pleased to inform you that TECHSEM has successfully tested its power modules up to 20,000 power cycles. Hence, the better reliability of the pressure contact technology has been proven again.

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

Thank you for your attention!

Yours faithfully

R&D Electronics Team

## Reliability Test Up To 20,000 Power Cycles

Recently TECHSEM has introduced a new reliability test for the power modules. The power modules with pressure contact have been tested according to IEC 60749-34 up to 20,000 power cycles. Through the successful completed test, it has again proven that the modules with pressure contact have significantly better reliability and longer lifetime than the solder contact modules. For the solder contact modules, such tests under the same test conditions can usually be conducted up to 10,000 power cycles only. All TECHSEM modules are based on pressure contact technology (Fig.1). Compare to solder contact modules, they can offer significant benefits in terms of reliability and durability.

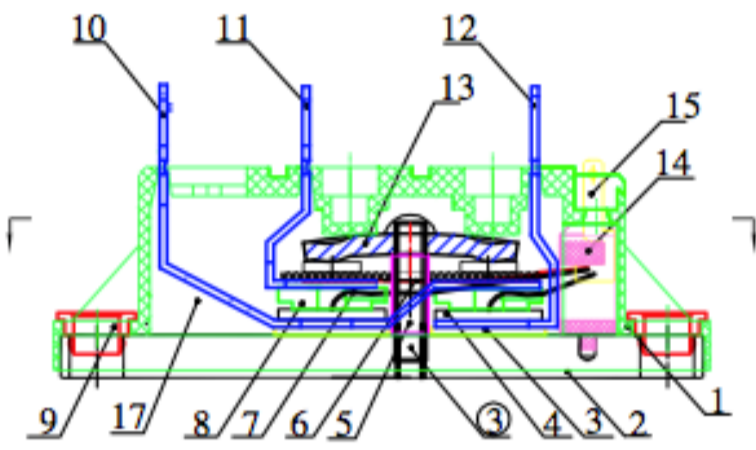


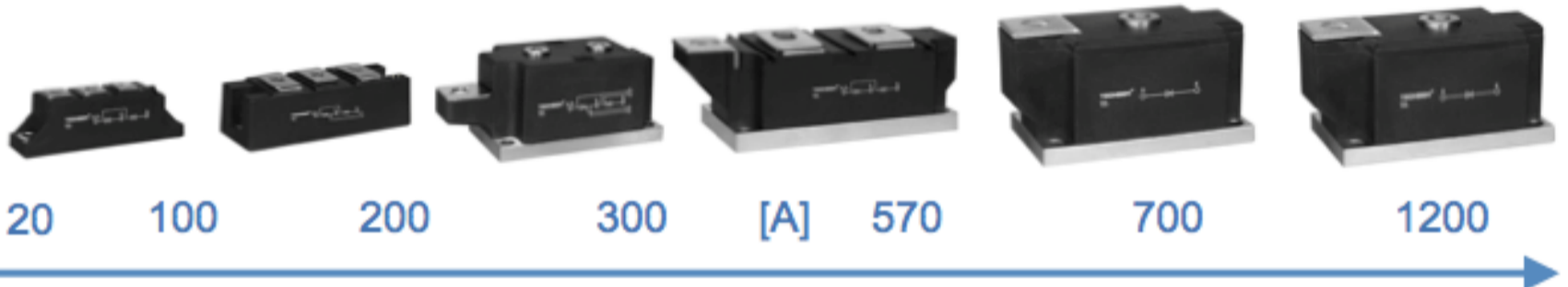
Fig. 1: Sectional view of a pressure contact module

## Product Summary

### 1. Dioden- / Thyristor Module

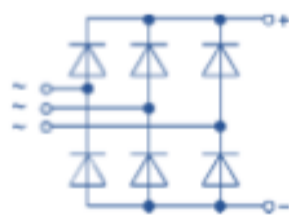


600V ..... 3600V

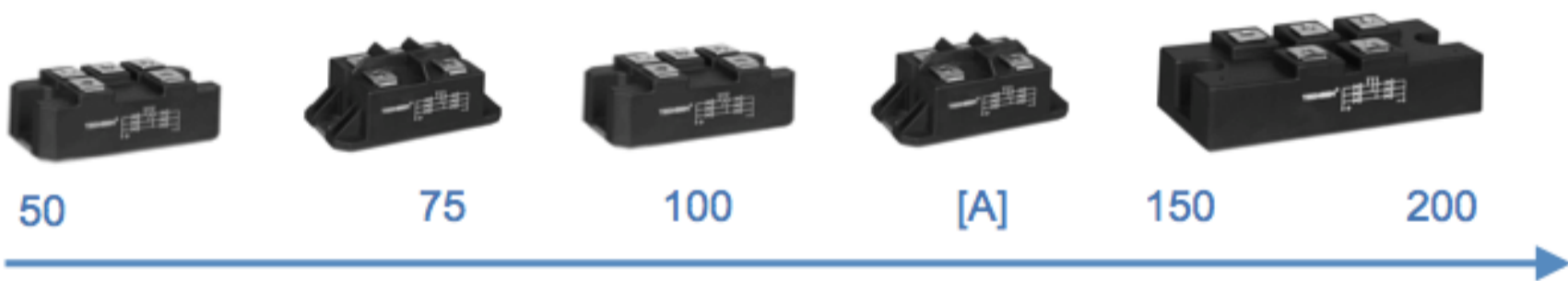


- CE certified / RoHS requirements are met
- UL certified for all power modules
- Certified quality assurance process
- Different circuits and current / voltage ranges meet the requirements of many applications
- Housing design pursuant to international standards allows easy substitutability (second source)
- Proven pressure contact technology => high reliability and durability
- Excellent cost-benefit ratio

### 2. Bridge Rectifier



800V ..... 1600V

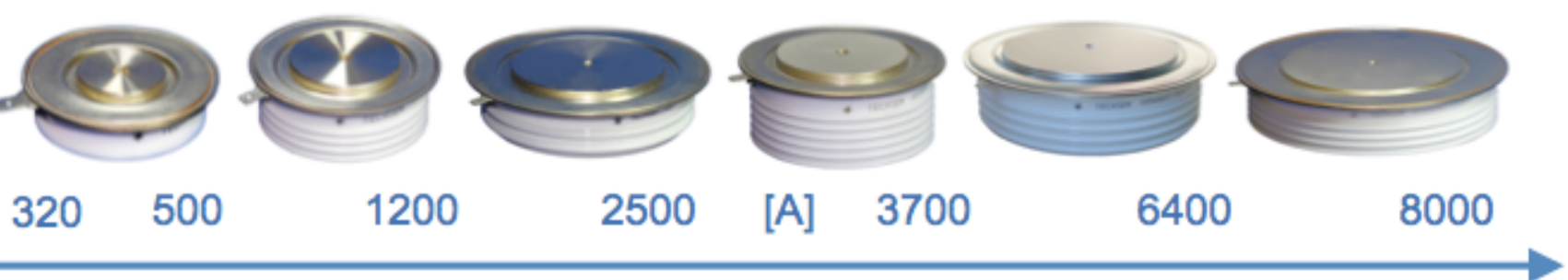


- CE certified / RoHS requirements are met
- Certified quality assurance process
- Different circuits and current / voltage ranges meet the requirements of many applications
- Housing design pursuant to international standards allows easy substitutability (second source)
- Excellent cost-benefit ratio

### 3. Diode- / Thyristor Capsule Devices (Disc Cells)



200V ..... 8000V



- CE certified / RoHS requirements are met
- Certified quality assurance process
- Different chips, circuits and current / voltage ranges meet the requirements of many applications
- Housing design pursuant to international standards allows easy substitutability (second source)
- Excellent cost-benefit ratio

## 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).

Wenn Sie den Newsletter nicht mehr empfangen möchten, klicken Sie bitte auf folgenden Link: