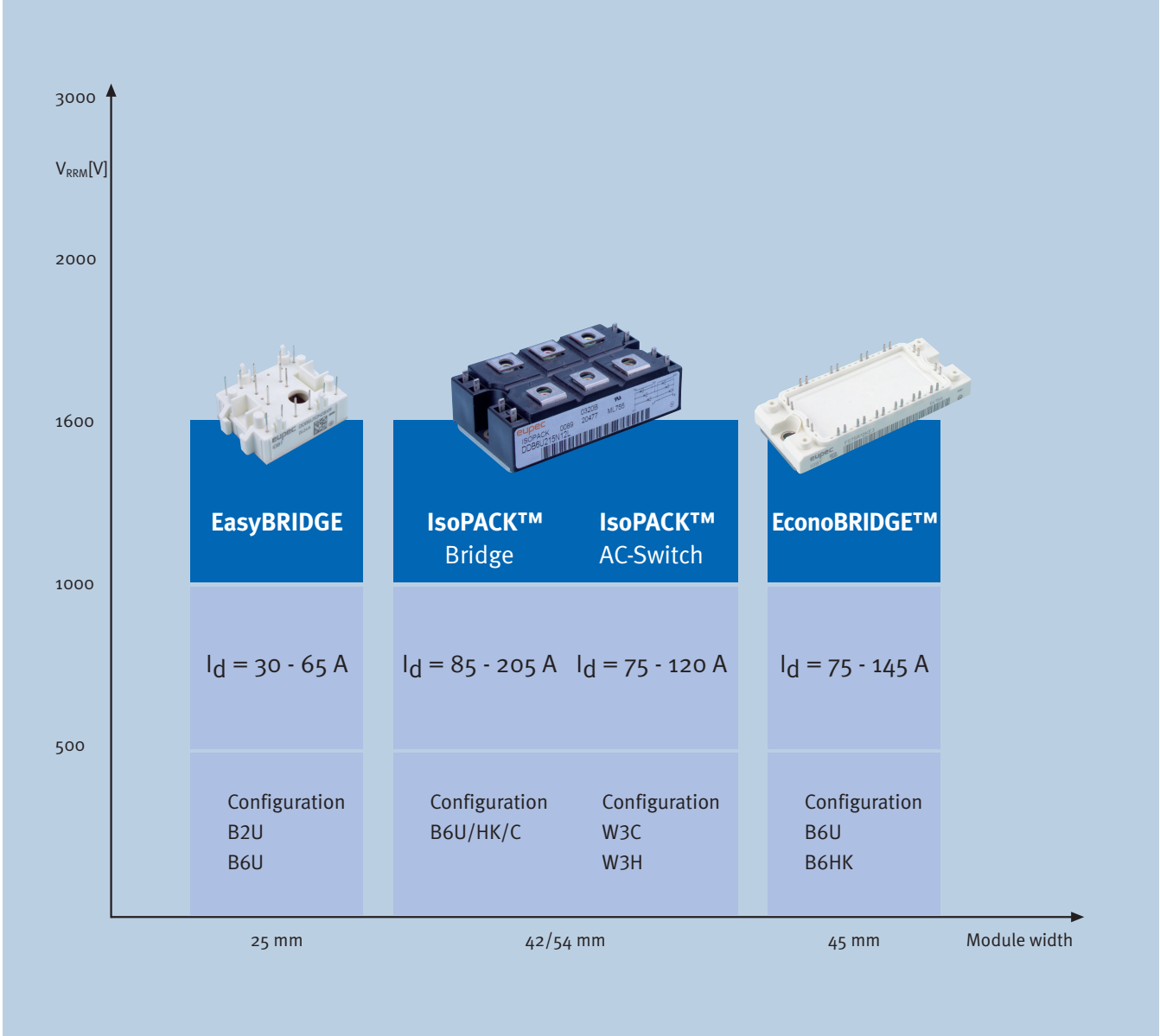


Overview Bridge Rectifier, AC-Switches



Available Module Configurations			Available Module Configurations		
Infineon shortcut	Description	Circuit	Infineon shortcut	Description	Circuit
DDB2U DDB6U	Bridge configuration with or without NTC/Chopper		TTW3C	AC Switches fully controlled	
TDB6HK	Bridge configuration with or without NTC/Chopper		TDW3C	AC Switches half controlled	

Thyristors & Diodes



BIPOLAR POWER SEMICONDUCTORS from Infineon Technologies are applied in the most varied fields of applications in a power range from a few kilo watts up to several giga watts. Besides the standard phase thyristors and rectifier diodes, our product scope provides also bipolar products for fast applications. For nearly all AC/DC power systems we provide discs in ceramic and epoxy housing as well as PowerBLOCK modules in various thyristor and diode configurations.

Type	Voltage $V_{RRM}$	Current $I_{TAV}$
Ceramic/Epoxy Thyristor/Diode	200V up to 6.800V	86A up to 8.400A
Ceramic High Power Thyristor/Diode	4.400V up to 9.000V	200A up to 6070A
PowerBLOCK Modules	1.000V up to 3.600V	61A up to 1.070A

THE LIGHT TRIGGERABLE THYRISTORS (LTT) are ceramic disc types with the advantage of its easy way of triggering by using optic couplers. No insulation problem between load and trigger unit. Higher reliability because of less electronic components on high potential by using the internal protection functions (BoD and dv/dt protection). The power range covers blocking voltages from  $V_{RRM}$  5200V up to 8000V and current ratings from  $I_{TAV}$  550A up to 3480A. Since their introduction, Infineon Technologies high power thyristors have been established in broad application fields.

TO COMPLETE THE PRODUCT PORTFOLIO, Infineon Technologies offers bridge rectifier modules in solder pin design like the EasyBRIDGE and the EconoBRIDGE™ Modules. The available configurations are fully- and half controlled rectifiers with brake IGBT and optional NTC resistor. They cover the current range  $I_d$  from 30A up to 145A in 800V at 1600V. The IsoPACK™ family with screwable load terminals are fully-, half- and uncontrolled rectifier modules. The three phase AC Switches round off the IsoPACK™ product family. The current range covers  $I_d$  85A up to 205A at 1600V.

Contribution to your success

- Wide product range offers the best possible solution for any application
- Standardized housing
- High power cycling capability and robust housing construction
- High pulse current capability
- Light triggered thyristors with BoD protection, to minimize equipment failure rate
- The EconoBRIDGE™ modules power range and housing matches EconoPACK™ Modules. Therefore common pc board and heat sink design. Hence, a shortened customer's development cycle time and cost
- The IsoPACK™ modules with screw terminals provide integrated solution due to smaller design compared to 3 x 20mm SCR/Diode

Applications for Thyristor and Diodes

- Industrial AC and DC drives
- Rectifier or static by-pass in UPS
- Wind turbines
- Welding applications
- Low and medium voltage softstarter
- Free wheeling diodes for GTO and IGCT
- High voltage direct current (HVDC)
- Static VAR compensation

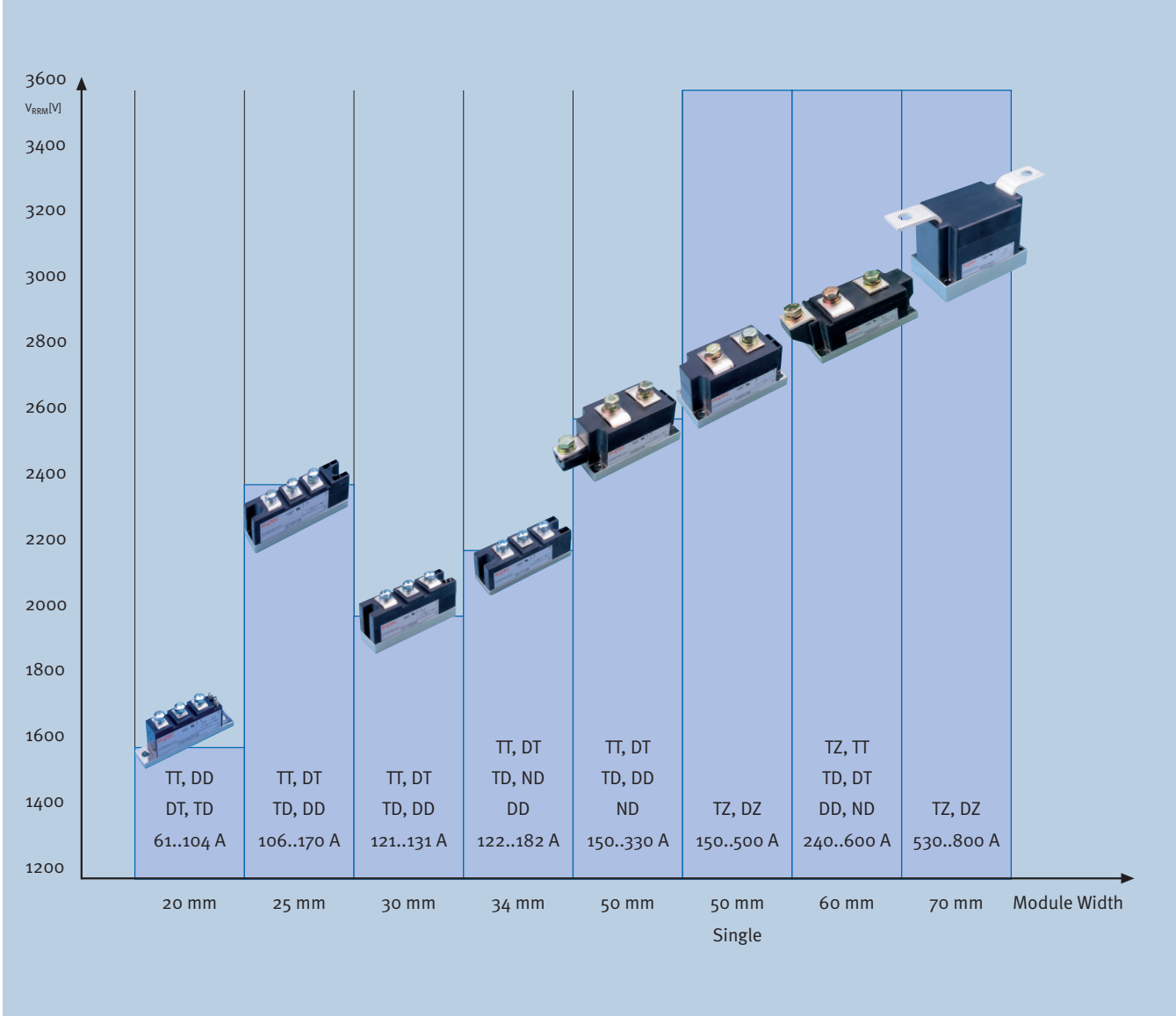
[www.infineon.com/powersemiconductors](http://www.infineon.com/powersemiconductors)

High Power Semiconductors



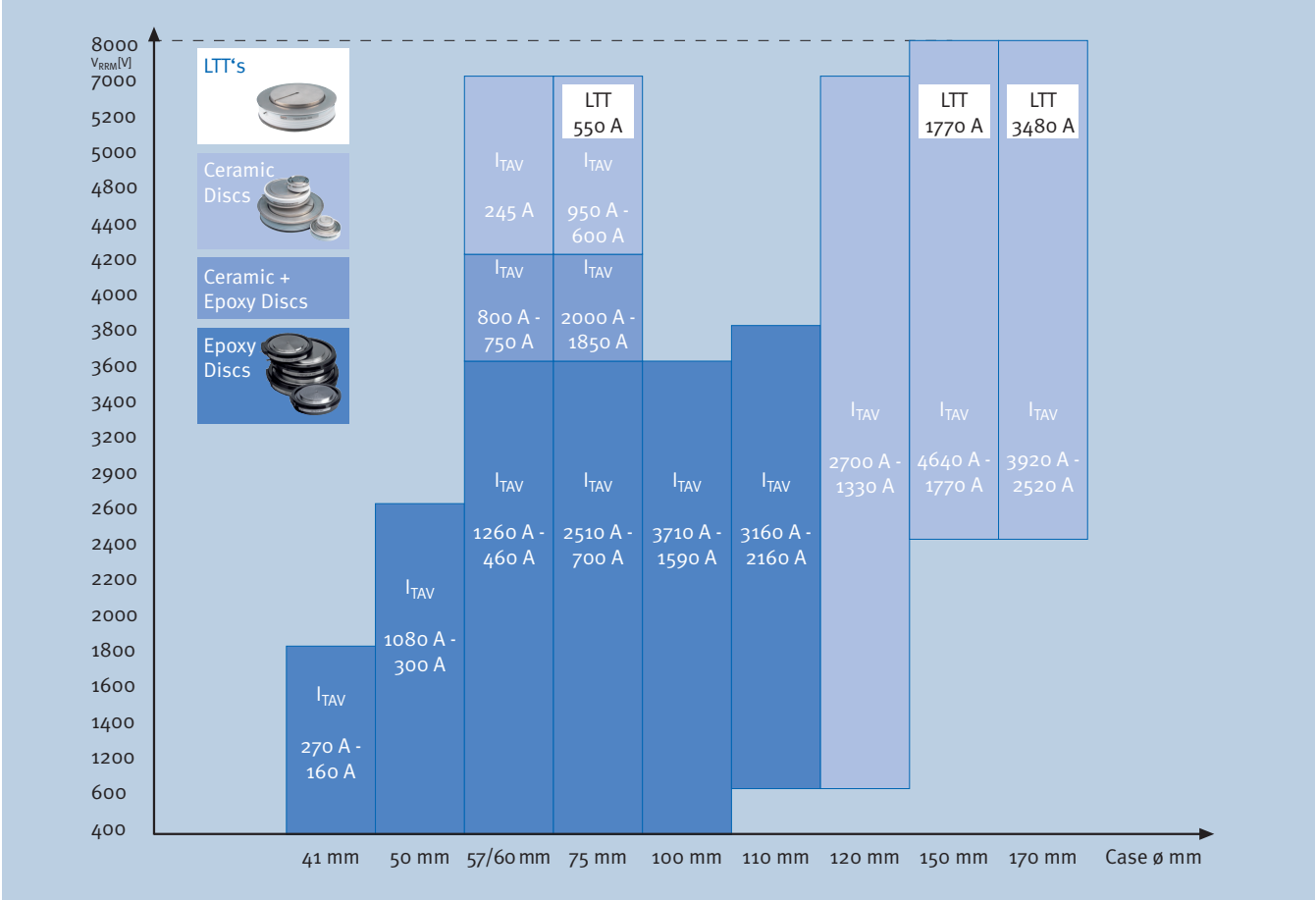
Never stop thinking

Overview PoweBLOCK Modules



Available Module Configurations			Available Module Configurations		
Infineon shortcut	Description	Circuit	Infineon shortcut	Description	Circuit
TT	SCR/SCR Type		DZ	Single Diode Type	
TD/DT	SCR/Diode Type		NZ		
			TZ	Single Thyristor Type	
			DD	Diode/Diode Type	

Overview Phase Control Thyristor in Disc Housings



Overview Diodes in Disc Housings

