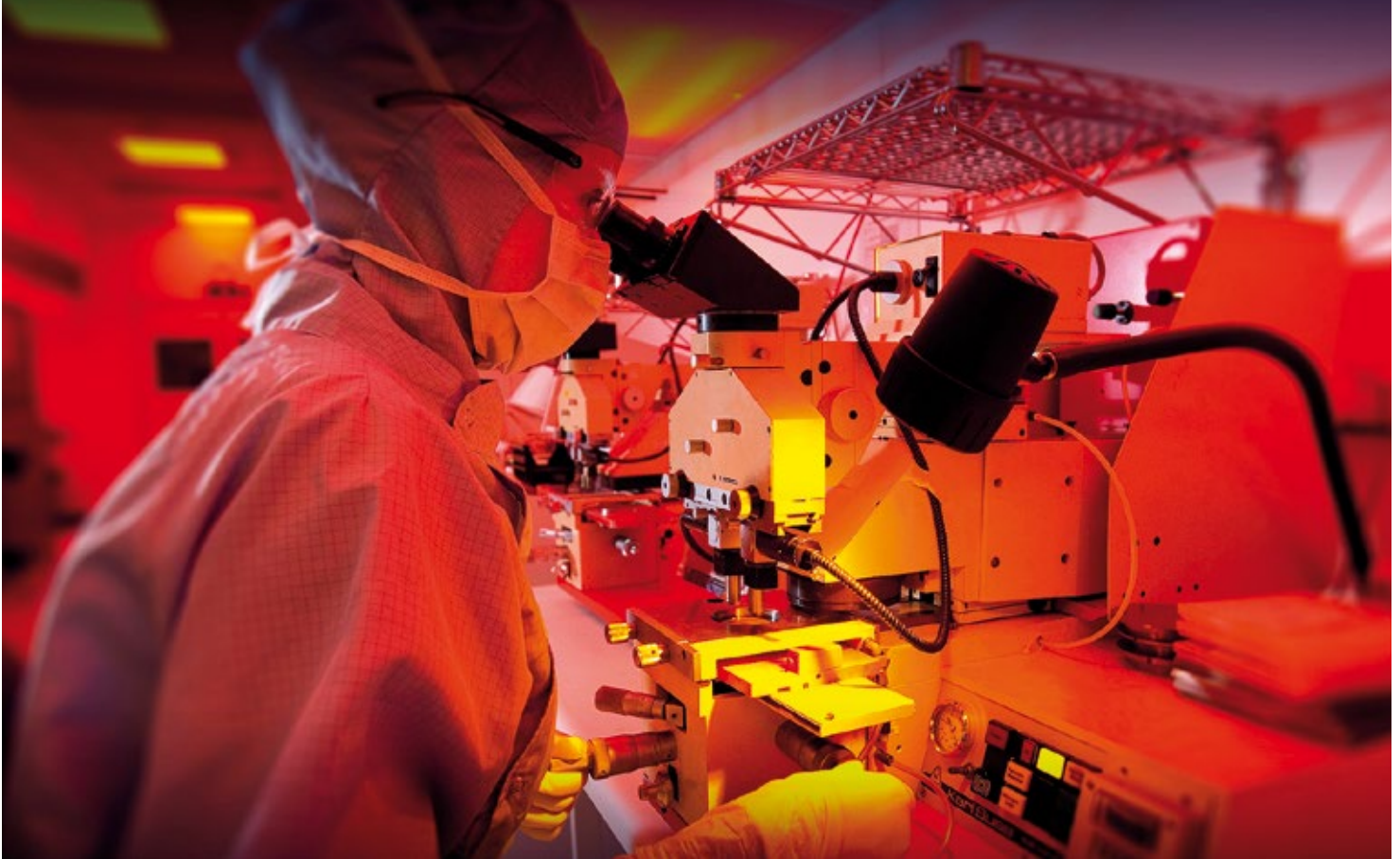


i² Thyristor Range

Bipolar

Get more out of less with Dynex's i² Thyristors



Features

- Dynex's i² Thyristor Range use thinner silicon with lower conduction losses than ever before
- With our optimised silicon and unique double positive bevels Dynex can utilise 100% of the blocking capability of the silicon
- The unique bevel maximises the current and surge ratings by increasing the contact area
- Exclusive Aluminium diffusion techniques allow us to fine tune the diffusion profile making them more robust and reliable
- Our top of the range, newly expanded R & D centre has allowed us to develop the most effective mask design
- With options ranging between 4200V-8500V and custom designs to ensure our product meets your individual needs



Applications

Wide market range:

- **Industrial**

Heavy industries
Industrial power controllers
Factory automation

- **Power transmission and distribution**

HVDC, UHVDC
SVC power control

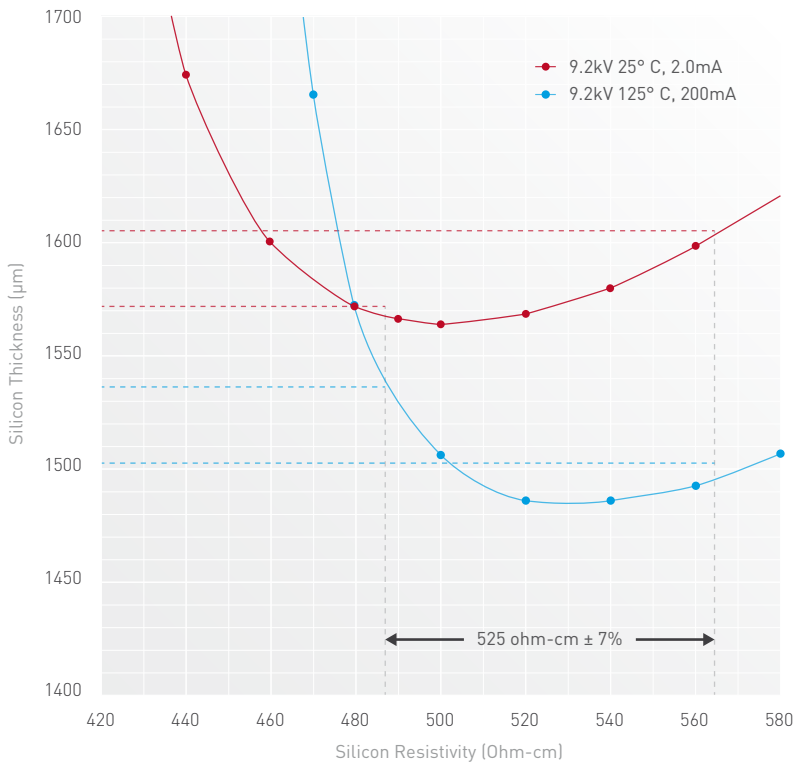
- **Transportation**

Marine drives
Traction

i² Thyristor Range

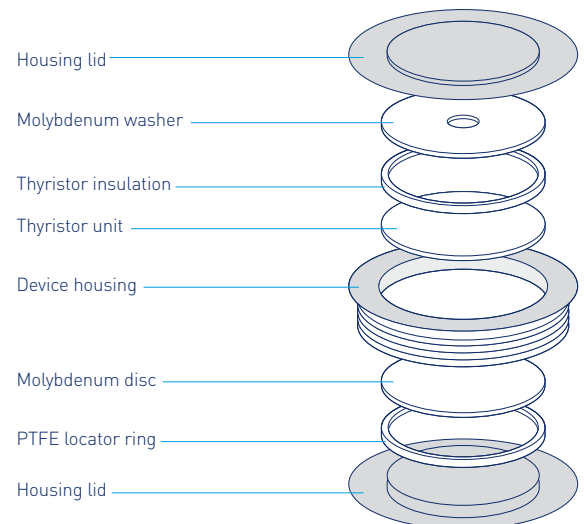
Diameter (mm) / Voltage (V)	4200	5200	6500	8500
38	DCR780G42	DCR690G52	DCR490J65 DCR590G65	DCR390J85 DCR470G85
50	DCR1150N42 DCR1260F42	DCR1020N52 DCR1110F52	DCR820N65 DCR890F65	DCR680N85 DCR750F85
63	DCR2040L42 DCR2150C42	DCR1850L52 DCR1950C52	DCR1570L65 DCR1650C65	DCR1300L85 DCR1370C85
75	DCR2930Y42 DCR3030V42	DCR2630Y52 DCR2720V52	DCR2220Y65 DCR2290V65	DCR1840Y85 DCR1910V85
88	DCR3790B42 DCR4100W42	DCR3480B52 DCR3640W52	DCR2880B65 DCR2950W65	DCR2400B85 DCR2450W85
100	DCR4500A42 DCR4880M42	DCR3990A52 DCR4330M52	DCR3220A65 DCR3480M65	DCR2560A85 DCR2760M85
125	DCR6140H42 DCR6650H42	DCR5240H52 DCR5890H52	DCR4420H65 DCR4660H65	DCR3640H85 DCR3980H85

Optimisation of 8.5kV Pulley Wheel Bevel Silicon Specification



Thyristor Components

Take a look at the components that make up our encapsulated device. The devices are fully floating, not bonded and are clamped together to achieve electrical and thermal contact. This allows our products to have an excellent temperature cycling life expectancy.



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