



540A/8 kV 2" Light triggered Thyristor

For Static Var Compensation (SVC) and Medium Voltage Drives

The 8 kV 2" light triggered thyristor disc is well suited for medium voltage drives, power supplies as well as for static Var compensation systems. The ceramic disc offers an easy way of triggering by using optic fibers to avoid insulation problems between load and trigger unit. Higher reliability thanks of less electronic components on high potential by using the internal protection functions: Break over Diode (BoD) and critical rise rate of forward off-state voltage (dv/dt) protection. This is ensured by safe internal triggering of the thyristor, repetitive operation possible. This feature allows continuous operation even in case of system failure. To ensure a narrow spread of dynamic parameters high technology production processes are used for this type.

Main Features

- Ratings
 - V_{BO} = 7500V
 - V_{RRM} = 8000V
 - I_{TAVM} = 540A
- Housing Dimensions
 - Diameter = 76 mm
 - Height = 35 mm

Applications

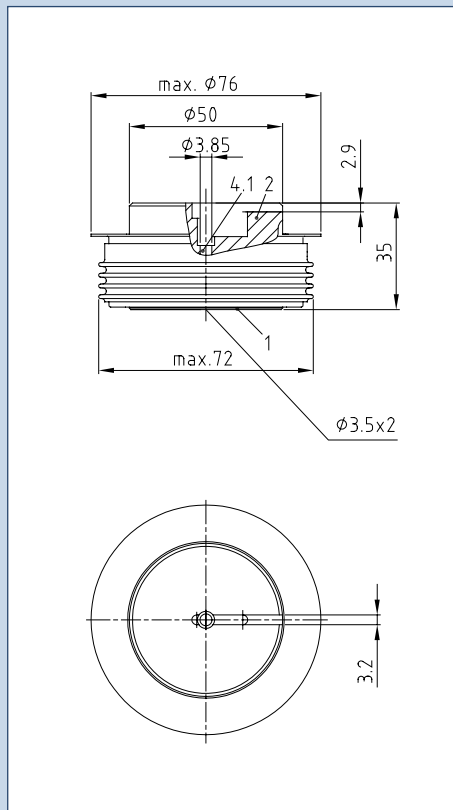
- Static Var Compensation (SVC)
- Medium Voltage Drives



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Outline drawing



Electrical parameters

T533N80TOH	
■ V_{BO}	7500 V
■ V_{RRM}	8000 V
■ I_{TSM}	11,2 kA
■ $\int i^2 dt$	672 A ² s.10 ³
■ V_T/I_T	2,8V/1000A
■ I_{TAVM}	535 A
■ $V_{(TO)}$	1,31 V
■ r_T	1,50 mΩ
■ $(di/dt)_{cr}$	300 A/μs
■ t_q	800 μs
■ R_{thjc}	20 K/kW
■ T_{vjmax}	120 °C

Sales Information

Part Number	Status	Ordering Number
T533N80TOH	in production	SP000905366

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