

# High-Power Thyristor

This is a solid-state semiconductor device with four layers of alternating N and P-type material. Primarily used in high-power applications such as AC power control, high-voltage DC transmission, and motor control circuits.



## ADDITIONAL IMAGES



## Product Overview

### Industrial Power Switching

These high-power thyristors are advanced solid-state semiconductor devices engineered for robust performance in demanding industrial environments. Featuring a hockey-puck design for superior heat dissipation, they enable precise control of high-voltage and high-current electrical systems. They serve as reliable bistable switches for motor control, AC power management, and power supply applications.

## Technical Data

### Model Comparison Table

Model	IT(AV) (A)	ITSM (KA)	VTM (V)	Mounting Force (kN)
KP500	500	6	1.75	5.0-7.0
KP600	600	12	1.65	9.0-11.0
KP1250	1200	22	1.75	14.0-16.0
KP2000	2000	45	1.65	24.0-28.0

Voltage Range (VDRM/VRRM) 400-800 V

Maximum Junction Temperature (TVJM) 125 °C

## Performance Metrics

### Key Performance Characteristics

**500 A**

Starting Current Rating

**2000 A**

Max Current Capacity

**45 KA**

Max Surge Current

## Application

### Primary Applications

AC Power Control, Motor Drives, HVDC Transmission, Industrial Automation, Power Supplies