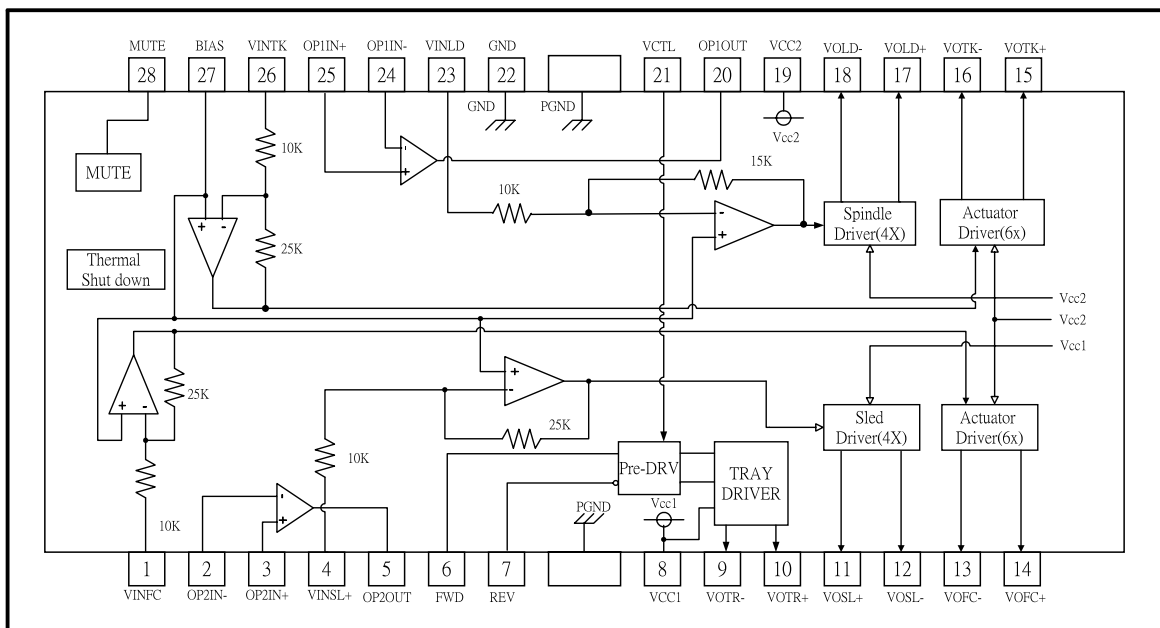


1) Motor Drive IC: AT5868S

The AT5868S is a 5-channel BTL driver IC for driving the motors and actuators in products such as CD-ROM/DVD-ROM/DVD-Player drives. Two of the channels use current feedback to minimize the current phase shift caused by the influence of load inductance. Driver IC generates the focus signal and the tracking signal for pick-up actuator, the sled signal for feed, spindle signal and the load signal for opening and closing of the tray. The focus signal, the tracking signal, the sled signal and the spindle signal are input into each relaxant port of the drive IC (in the order of No. 26 pin, 23, 4, and 1) and set the gain amplification and the center voltage through the internal OP-AMP and drive on both sides and then the focus signal and the tracking signal will be output as VOFC+, VOFC- and VOTK+, VOTK- on actuator, the sled signal and the spindle signal will be output as VOSL+, VOSL- and VOLD+, VOLD- on each motor. For the load signal the input opening/closing signal is output as VOTR+, VOTR- through the loading PRE FWD REV circuit.



Motor Drive IC AT5868S Block Diagram