



164164



G00001

CLAIMS

- 5 1. An optical disk device for recording/reproducing data on/from an optical disk,
comprising : a monitor circuit for monitoring a junction temperature of a chip
of a driver IC for driving a recording/reproduction driving system, and a
comparison circuit for comparing an output of the monitor circuit with an
arbitrary set temperature and outputting a temperature flag as a comparison
10 result, which circuits are included in the driver IC; and a CPU for controlling
the operation of the entire optical disk device as well as monitoring the
temperature flag outputted from the comparison circuit, said CPU performing a
control so as to continue driving of the optical disk device when the junction
temperature is lower than the arbitrary set temperature, and performing a
15 control so as to suppress heat generation of the driver IC when the junction
temperature is equal to or higher than the arbitrary set temperature.
2. The optical disk device as defined in claim 1 including: a spindle driver IC, a
20 traverse driver IC, and an actuator driver IC as the driver IC.
3. The optical disk device as defined in claim 2, wherein the spindle driver IC
internally has the monitor circuit and the comparison circuit, and a control for
suppressing heat energy of the spindle driver IC is exerted so as not to
perform a forced acceleration or forced deceleration of the optical disk for an
25 arbitrary period of time.
4. The optical disk device as defined in claims 2 or 3, wherein the traverse driver
IC internally has the monitor circuit and the comparison circuit, and a control
for suppressing heat generation of the traverse driver IC is exerted so that a
free run state of the optical disk is included in changes in revolution of the
30 optical disk.
5. The optical disk device as defined in any one of claims 2 to 4, wherein the
actuator driver IC internally has the monitor circuit and the comparison circuit,

and a control for suppressing heat generation of the actuator driver IC is exerted so as to reduce the number of revolutions of the optical disk.