

ABSTRACT

Disclosed is a composite substrate, which is provided
5 with an inorganic insulating sintered substrate, which has a
heat conductivity of 5 W/m·K or more, and a volume
resistivity of $1 \times 10^8 \Omega \cdot \text{cm}$ or more, and a single crystal
semiconductor film, or a composite substrate, which is
provided with the inorganic insulating sintered substrate, a
10 single crystal semiconductor film, and a thin layer
configured of at least one kind of material selected from
among an oxide, a nitride, and an oxynitride, said thin layer
being provided between the inorganic insulating sintered
substrate and the single crystal semiconductor film.
15 According to the present invention, a low-cost composite
substrate with suppressed metal impurity contamination can be
provided using an inorganic insulating sintered body, which
is opaque to visible light, and which has excellent heat
conductivity, and furthermore, a small loss in a high
20 frequency region.