

**SOCKET, CIRCUIT BOARD, AND SUB-CIRCUIT BOARD FOR SEMICONDUCTOR
INTEGRATED CIRCUIT DEVICE**

ABSTRACT OF THE DISCLOSURE

5 The present invention provides a socket having mechanical connection
means for easily connecting and disconnecting a semiconductor integrated circuit
device to and from through connection portions of a circuit board, a circuit board,
and a sub-circuit board for electrically connecting the socket to the circuit board.
The socket of the present invention comprises inner connection portions, which
are electrically connected to external terminals of the semiconductor integrated
10 circuit device, and outer connection portions, which are integrated with the inner
connection portions and mechanically contact the through connection portions of
the circuit board. The outer connection portions have the self-elasticity and
thereby mechanically contact the through connection portions of the circuit board.
And, the sub-circuit board has connection leads, which mechanically contact the
15 through connection portions of the circuit board. Since the present invention
electrically connects the socket to the circuit board without soldering and/or using
the receptacles, it reduces the production cost and easily connects and disconnects
the socket to and from the circuit board.

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