MICROELECTRONIC DEVICES, STACKED MICROELECTRONIC DEVICES, AND METHODS FOR MANUFACTURING MICROELECTRONIC DEVICES

ABSTRACT OF THE DISCLOSURE

Microelectronic devices, stacked microelectronic devices, and methods for manufacturing microelectronic devices are described herein. In one embodiment, a set of stacked microelectronic devices includes (a) a first microelectronic die having a first side and a second side opposite the first side, (b) a first substrate attached to the first side of the first microelectronic die and electrically coupled to the first microelectronic die, (c) a second substrate attached to the second side of the first microelectronic die, (d) a plurality of electrical couplers attached to the second substrate, (e) a third substrate coupled to the electrical couplers, and (f) a second microelectronic die attached to the third substrate. The electrical couplers are positioned such that at least some of the electrical couplers are inboard the first microelectronic die.

Figure : 3A