

SEMICONDUCTOR STRUCTURE

ABSTRACT

Embodiments of the disclosure provide a semiconductor structure. The semiconductor structure includes: a substrate and an active pillar located above the substrate. The active pillar extends in a first direction. The first direction is parallel to a plane where the substrate is located. The active pillar includes a body area extending in the first direction and a peripheral area surrounding the body area. The peripheral area includes a channel area. A type of doped ions of the channel area is the same as a type of doped ions of the body area, and a doping concentration of the channel area is greater than a doping concentration of the body area.

Figure 1