SINGLE METAL DAMASCENE STRUCTURE AND METHOD OF FORMING THE SAME

ABSTRACT OF THE DISCLOSURE

A single metal damascene structure including an insulating layer, a metal filling layer and a barrier layer is provided. The insulating layer has an opening therein, and the metal filling layer is positioned in the opening. The barrier layer is located between the filling metal layer and the insulating layer. The material of the barrier layer includes an alloy, and the ally includes a copper element and at least one another metal.

Figure 1