ON-DIE HEATING CIRCUIT AND CONTROL LOOP FOR RAPID HEATING OF THE DIE

ABSTRACT OF THE DISCLOSURE

An integrated circuit includes a heating circuit configured to heat the integrated circuit under the control of a controller. A transfer function with adjustable pole, zero and overall gain is implemented in the controller such that a temperature response of the integrated circuit can be changed by adjusting one or more of the adjustable pole, zero and overall gain.

FIG. 1



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