

# Example of an APD Circuit

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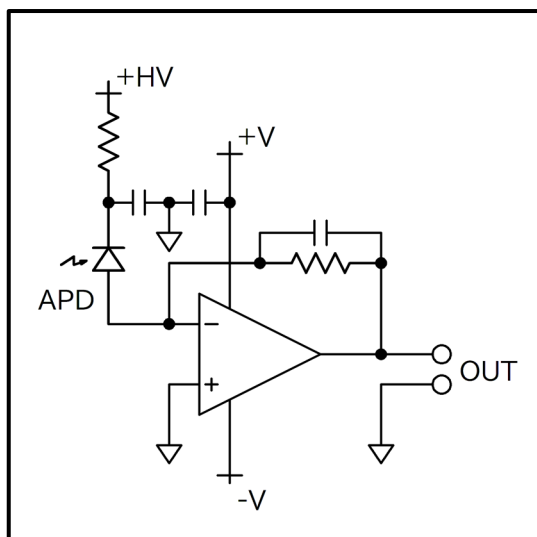
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### Example of an APD Circuit

This circuit is used to operate an APD by applying a reverse bias voltage. PIN-TIA and APD-TIA circuits are used for optical communication and so on.

#### Active Type Current-Voltage Conversion Circuit

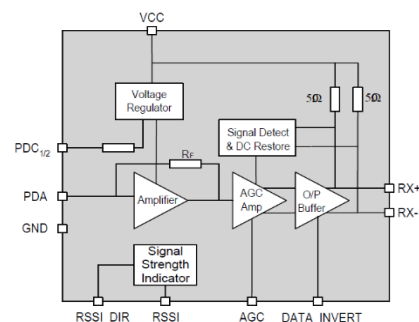
This is a typical circuit for using the characteristics of an APD effectively. It converts the current source to a manageable voltage. It is called a TIA circuit or an I-V conversion circuit.



(Explanation) When light enters the PD, a current flows from the cathode of the PD to the anode. This current is converted to a voltage by the feedback resistance of the operational amplifier.

For optical communication, it is possible to easily construct a circuit by using an IC chip.

Example of an MAXIM IC Block →





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