

OPTICAL MODULATOR FROM STANDARD FABRICATION PROCESSING

Abstract

An optical modulator is disclosed that includes an optical resonator structure. The optical resonator structure includes at least one non-linear portion, the at least one non-linear portion comprising at least one radial junction region. The at least one radial junction region is formed between at least first and second materials, respectively, having different electronic conductivity characteristics. A principal axis of the at least one radial junction region is oriented along a radius of curvature of the at least one non-linear portion. The optical modulator includes an optical waveguide that is coupled to the at least one non-linear portion of the optical resonator structure.

Fig. 1A