A classical result of Zelinsky states that every linear transformation on a vector space \( V \), except when \( V \) is one dimensional over \( \mathbb{Z}_2 \), is a sum of two invertible linear transformations. We extend this result to any right selfinjective ring \( R \) by proving that every element of \( R \) is a sum of two units if and only if no factor ring of \( R \) is isomorphic to \( \mathbb{Z}_2 \). We also give a complete characterization of unit sum numbers of right self-injective rings. Finally, we discuss the Hochschild extensions of rings generated by units. (Received August 23, 2007)