

A voltage reference circuit based on threshold-voltage-summation ($\Sigma-V_{TH}$) architecture is proposed. Its output (V_{REF}) is not affected by the input offset of the feedback amplifier in the circuit. Thus, its V_{REF} dispersion is considerably reduced. A prototype circuit fabricated in fully depleted CMOS/SIMOX technology can operate at a supply voltage as low as 0.6 V. The measured V_{REF} is $530 \text{ mV} \pm 16.8 \text{ mV}$ (3σ) and the measured temperature coefficient is $0.02 \text{ mV}/^\circ\text{C} \pm 0.06 \text{ mV}/^\circ\text{C}$ (3σ).