

Supplementary Materials

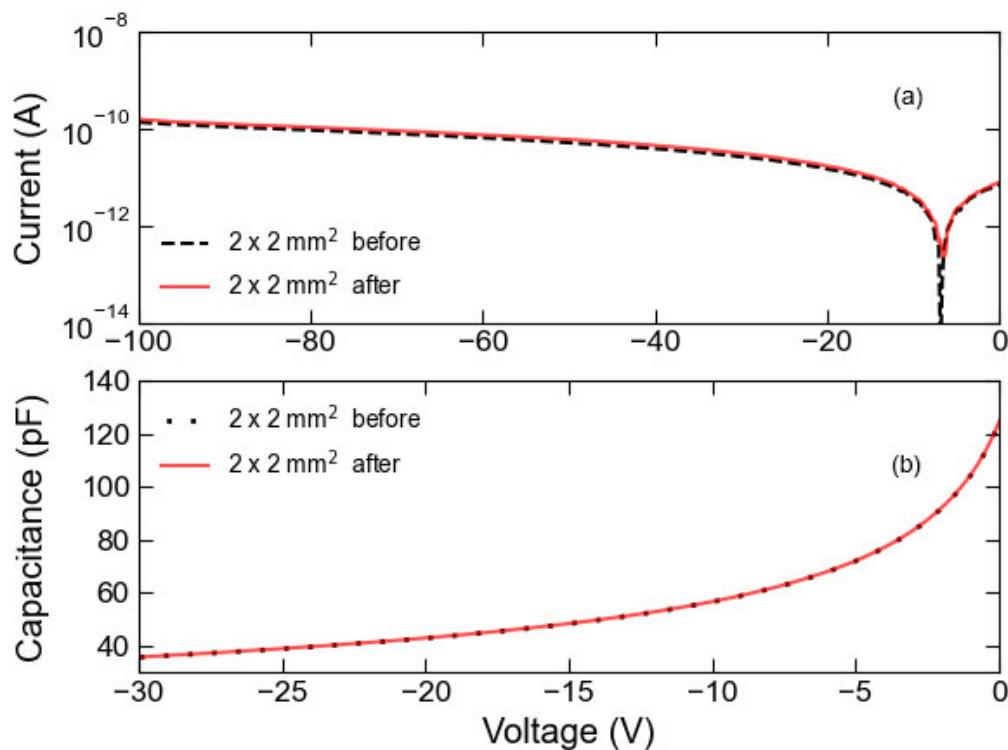


Figure S1. Measured electrical characteristics of 4H-SiC detector with active surface area of $2 \times 2 \text{ mm}^2$ before and after radiation testing at room temperature (a) I-V characteristics and (b) C-V characteristics.

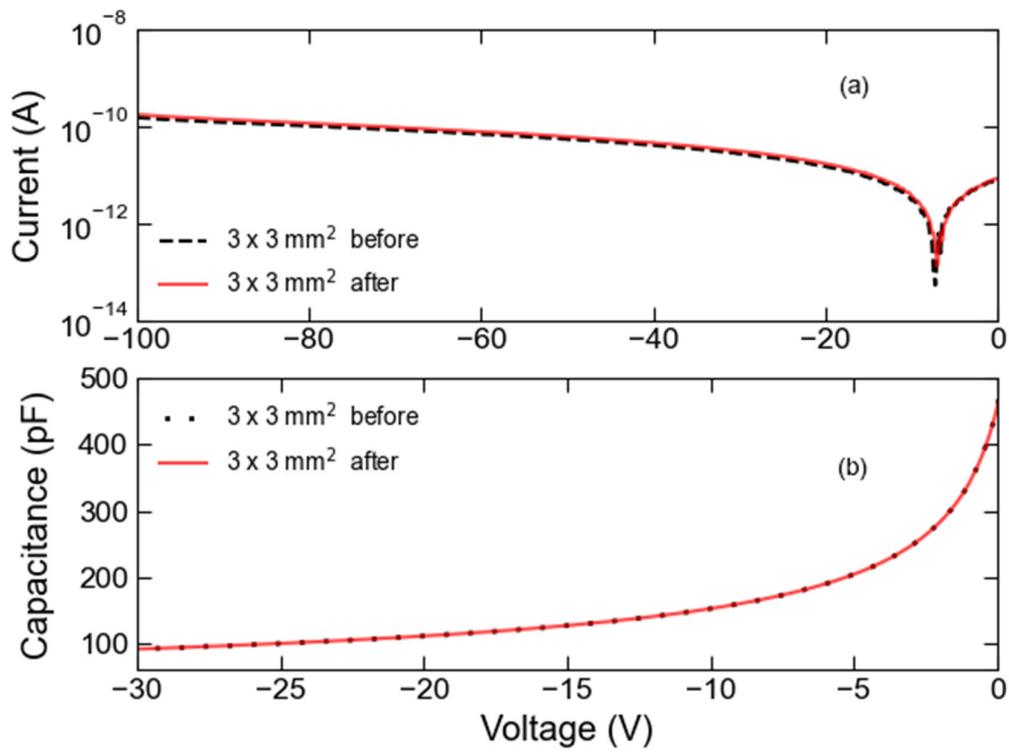


Figure S2. Measured electrical characteristics of 4H-SiC detector with active surface area of $3 \times 3 \text{ mm}^2$ before and after radiation testing at room temperature (a) I-V characteristics and (b) C-V characteristics.