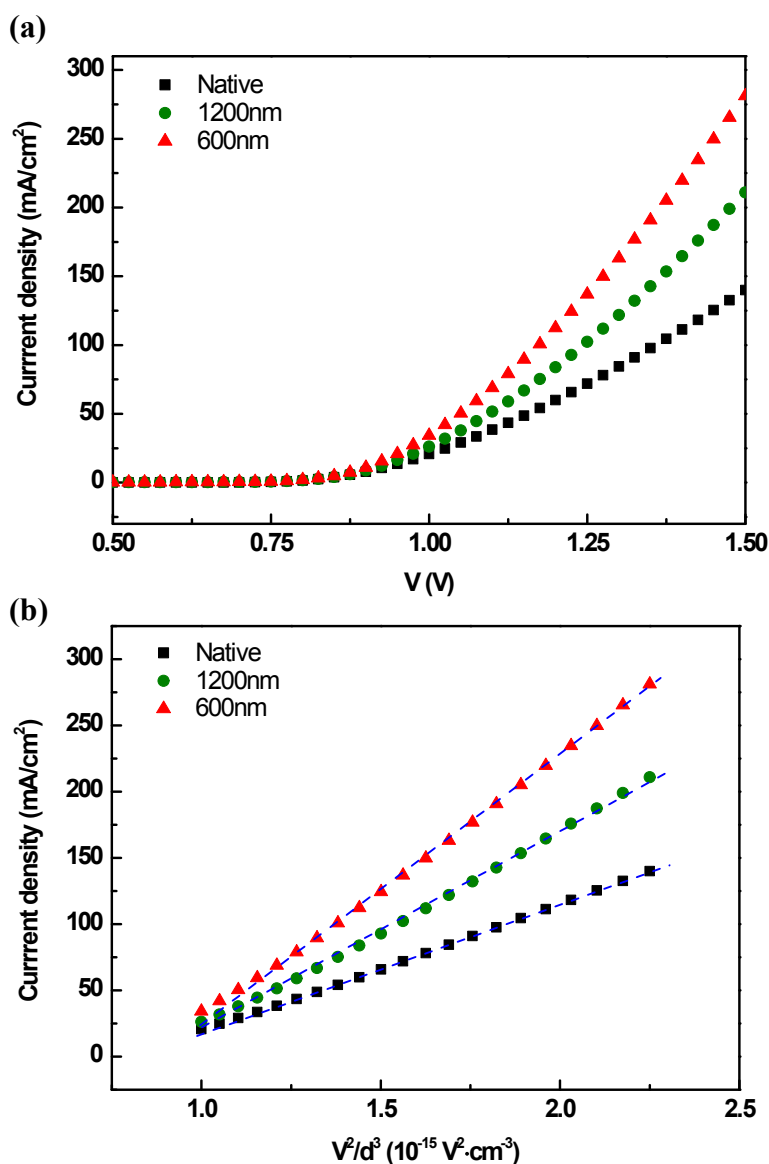


## Supporting Information

### Charge transfer highways in polymer solar cells embedded with imprinted PEDOT:PSS gratings

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**Figure S1.** (a) The dark  $J$ - $V$  characteristic of devices with native and imprint PEDOT:PSS layers. (b) The fitting curves of  $J$  to  $V^2/d^3$  curves in which the hole mobility of P3HT/ICBA blend films can be obtained from the slop of fitting lines.

**Table S1.** Carrier mobility of P3HT/ICBA blend films formed on native, 1200 nm-wide nanograting-imprinted, and 600 nm-wide nanograting-imprinted PEDOT:PSS surfaces.

	Native	1200 nm	600 nm
<b>Mobility</b> <b>(10<sup>-4</sup> cm<sup>2</sup>/Vs)</b>	<b>2.23</b>	<b>3.42</b>	<b>4.56</b>