



Figure 1. (a) Structure of the laser stack. For Al<sub>x</sub>Ga<sub>(1-x)</sub>As with  $x=0.7$ , thickness  $y = 700$  nm. For  $x=0.4$ , thickness  $y = 1400$  nm. (b) Electron channeling contrast image (ECCI) of sample with  $1 \times 10^6 \text{ cm}^{-2}$  TDD. (c) TDD of  $3 \times 10^7 \text{ cm}^{-2}$ . (d) TDD of  $4 \times 10^8 \text{ cm}^{-2}$ .