ENGINEERING TRIPOS PART IIB 2013 4B2 Numerical Solutions

Q1: On-state losses: 1.41W Off-state losses: ~0W Turn-on Losses: 6.03W Turn-off Loses: 11.68W Total Losses: 19.12W

- Q3 (b) (ii) $I_{snap-back}$ =70mA (considering a forward-voltage of the junction as 0.7V) $V_{snap-back}$ =5,6V
 - (iii) $I_{Alatch-up}$ =2.33A When the temperature is raised by 50C, $I_{Alatch-up}$ =2A