**Diode:**

From:

<https://www.mouser.com.tr/Semiconductors/Discrete-Semiconductors/Diodes-Rectifiers/Rectifiers/_/N-ax1mb?P=1z0z80dZ1yuoc5pZ1yopdgy>

Mouser Part No 512-S2G:

<https://www.mouser.com.tr/datasheet/2/308/S2M-D-1814755.pdf>

400 V , 2 A , 1.1 forward voltage, DO-214AA (SMB) package, 0.28 euro

**Heatsink:**

from:

<https://www.digikey.com/en/products/filter/thermal-heat-sinks/219?s=N4IgjCBcoMwKwHYqgMZQGYEMA2BnApgDQgD2UA2iACxgxUAMMIxNdcAbCALrEAOALlBABlfgCcAlgDsA5iAC%2B84gCYKIABb5M-AAS5pAa27FO0EBIAmQsAE4mfQZBHjpc4vwCevfEMy40ikA>

V-1100-SMD/B-L:

<http://www.assmann-wsw.com/uploads/datasheets/ASS_0855_HS.pdf>

DPAK TO-252, 8.13mm, 20.07 mm, 9.91mm, 25 thermal resistance, 0.46 dollar