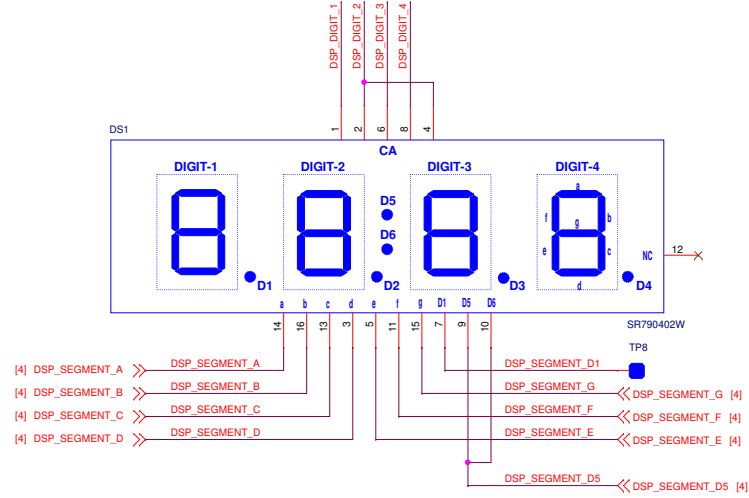
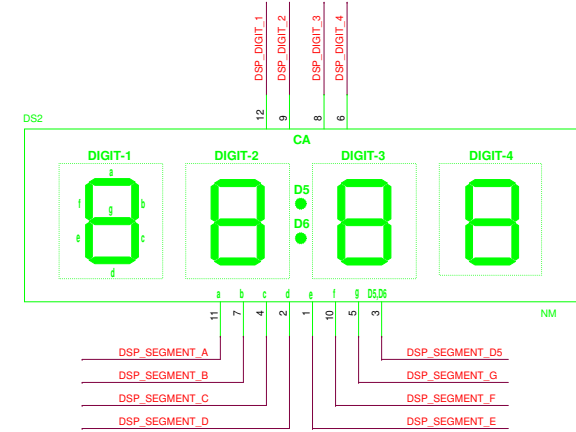


## DISPLAY SECTION

### ARK LED SEVEN SEGMENT DISPLAY

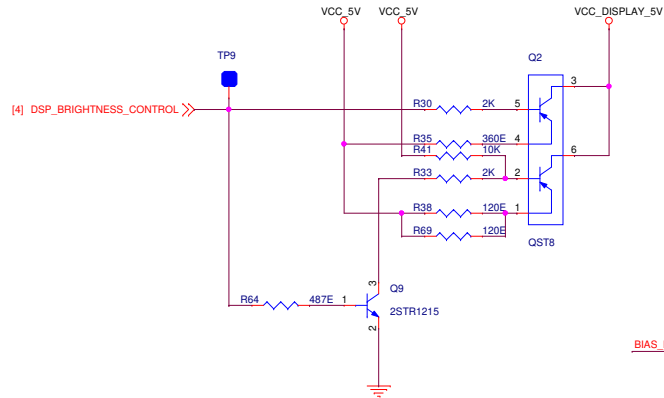


### LITEON SEVEN SEGMENT DISPLAY

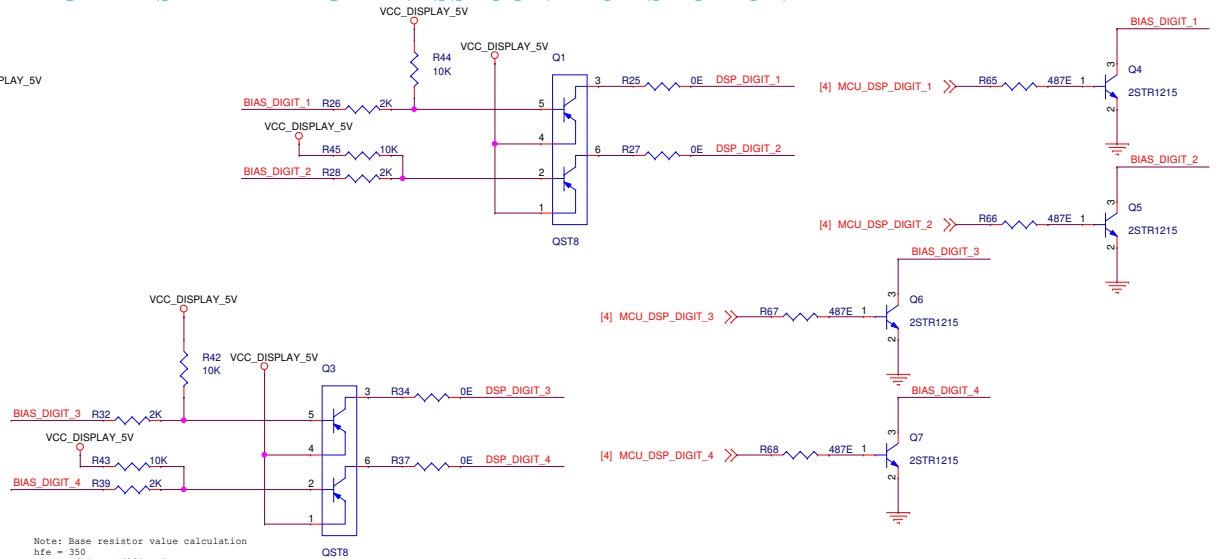


## 4 DIGIT DISPLAY BRIGHTNESS CONTROL SECTION

Note: If DSP\_BRIGHTNESS\_CONTROL pin in low state then display will glow with high brightness and if this pin in high state then the display will glow with low brightness



Note:  
 $R21 = (5V - 3.2V) / 5mA = 360\Omega$   
 $R24 = (5V - 3.2V) / 15mA = 120\Omega$   
 High brightness is set with 15mA current and Low brightness is set with 5mA input current



Note: Base resistor value calculation  
 $h_{fe} = 350$   
 $I_b = I_c / h_{fe} = 1/350 = 2mA$   
 $R_b = (V_{cc} - V_{be}) / I_b$   
 $R_b = 5 - 0.9 / 2$   
 $R_b = 2K$

1

D



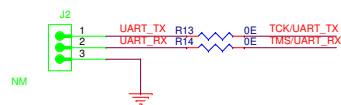
## C



## B



1



## A

