

If VD5 = 5V1 and VD6/7 = 1.2V (one red led)

Vled = 2 x 1.2V

Illed --> 1mA?

$R2 = (VD5 - VLed) / ILed = (5.1 - 2.4) / 0.001 = 2k7\ \Omega$

$VR1 = Vsup - VD5 = 15 - 5.1 = 9.9V$

ID5 --> 1mA?

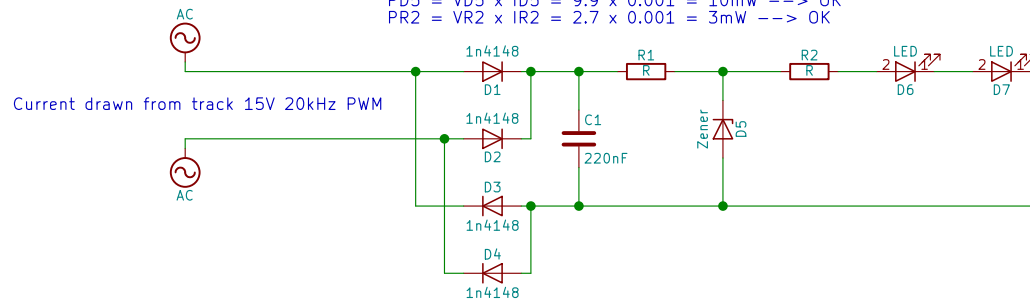
$IR1 = Illed + ID5$

$R1 = VR1 / IR1 = 9.9 / 0.002 = 4k95\ \Omega$

$PR1 = VR1 \times IR1 = 9.9 \times 0.002 = 20mW \text{ --> OK}$

$PD5 = VD5 \times ID5 = 9.9 \times 0.001 = 10mW \text{ --> OK}$

$PR2 = VR2 \times IR2 = 2.7 \times 0.001 = 3mW \text{ --> OK}$



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**Title:**

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