



Rsense (R2)  
 $Rsense = V_{ref} / (I_{out} - I_{ak})$   
 $Rsense = 2.5V / (50mA - 35uA)$   
 $Rsense = 50.035 \text{ ohm} \rightarrow 49.9 \text{ ohm}$   
 \*  
 Rz (R1)  
 $Rz = (V_{in} - V_{ref} - V_{be}) / ((I_{out} / \beta) + I_{ak})$   
 $Rz = (7 - 2.5 - 0.7) / ((50mA / 100) + 35uA)$   
 $Rz = 7102.8 \text{ ohm} \rightarrow 7.15K$

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**Title: ZR431 overcurrent protection**

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