

How select theoretical value of R  
 $R \leq V_{full-scale}/I_{max, req} = 81.92mV/I_{max, req}$   
 $P_R \geq V_{full-scale} \cdot I_{max, req}$

If  $I_{max, req} = 50A$   
 $R \leq 1.64m\Omega \rightarrow R = 1.5m\Omega$

If  $R = 1.5m\Omega$   
 $I_{max} = V_{full-scale}/R = 54.6A$   
 $I_{min} = V_{LSB}/R = 20\mu V/R = 13.34 mA$

