

ON 0.7V



OFF  
 $V_o = 5 - 0.5V$

OFF 5V

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$$5 - 5 = 0V$$

0.7V ON

4.3V

$$4.3V \quad I = V/R = 4.3V/1Kohm = 4.3mOHM$$

0.7V  
ON







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ON 0.7V

ON 0.7V

OFF  
 $I = 0A$

$$V_o = IR = 0V$$