



Zener Diode - LOAD Regulator

INSTRUCTION

EXPERIMENTAL TABLE

DC Voltage (V_{DC}): 0 V Zener Voltage(V_Z): 3.3 V

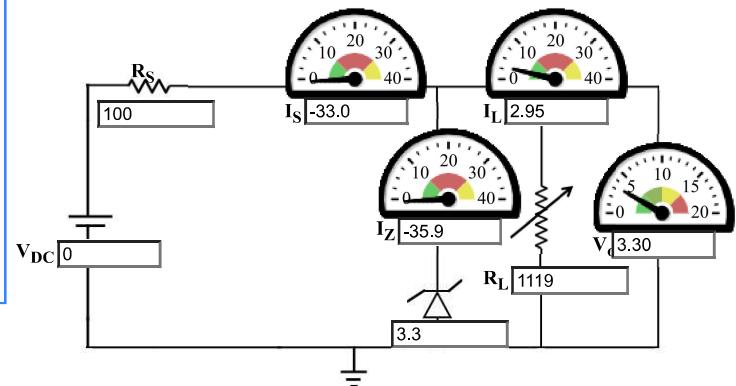
Series Resistance(R_S): 0.1 KΩ

| Serial No. | Load Resistance(R_L) Ohm | Load Current(I_L) mAmp | Zener Current(I_Z) mAmp | Regulated Output Voltage(V_O) V | % Voltage Regulation |
|------------|------------------------------|----------------------------|-----------------------------|-------------------------------------|----------------------|
| 1 | 257 | 12.8 | -45.8 | 3.30 | 28.0 |
| 2 | 325 | 10.2 | -43.2 | 3.30 | 23.5 |
| 3 | 398 | 8.29 | -41.3 | 3.30 | 20.1 |
| 4 | 532 | 6.20 | -39.2 | 3.30 | 15.8 |
| 5 | 642 | 5.14 | -38.1 | 3.30 | 13.5 |

CONTROLS

DC volt : Volt
 Zener Diode(V_Z) : Volt
 Resistance(R_S) : Ohms
 Resistance(R_L) : Ohms

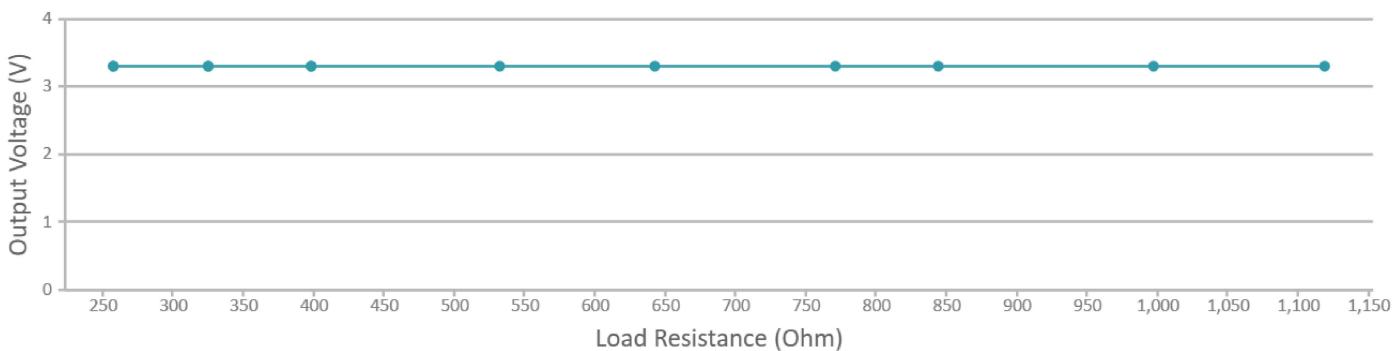
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GRAPH PLOT

RI-Vo Plot

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