



For current limit = 65 ma (2708 sinks 20 ma max)

$$\frac{.65v}{Rsc} = \frac{.65v}{65 ma} = 105c$$

$$\frac{.65}{Imax} = \frac{.65}{10.5} = 61.9 ma$$

$$I max = \frac{.65}{10.5} = 68.9 ma$$

$$I max = \frac{.65}{7.5} = 68.9 ma$$

For
$$V_0 = 27 v^{\frac{1}{2}} | V_{cef} > 7.15$$

$$V_0 = V_{ref} \times \frac{R_1 + R_2}{R_2} \qquad V_{01} = V_{Ref} \times \frac{R_1 + R_2 + P_1}{R_2 + P_1} = 27 - 1$$

$$V_{02} = V_{ref} \times \frac{R_1 + R_2 + P_1}{R_2} = 27 + 1$$

$$R_1 + R_2 + P_1 = 3.92 R_2$$

let
$$P_1 = 1k$$

 $R_1 + 1k = 2.92 R_2$

2,64 Rz + 2,64 K + 1 K = 2,92 Rz

$$R_1 = 2.64 R_2 + 2.64 K$$

$$3.64 k = 2.92 R_2 - 2.64 R_2$$

 $3.64 k = .28 R_2$

$$R_z = 13 k$$

$$V_{02} = 7.15 \times \frac{30K + 13K + 11K}{13K} = 27.5$$
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Table Receomends for +28 volts

$$R_1 = 5.6 \text{ k}$$
 $V_0 = 7.15 \left(\frac{6.6 \text{ k} + 2 \text{ k}}{2 \text{ k}} \right) = 30.75 \text{ V}$
 $R_2 = 2 \text{ k}$
 $V_0 = 7.15 \left(\frac{5.6 + 3 \text{ k}}{3 \text{ k}} \right) = 20.50 \text{ V}$

$$V_0 = 7.15 \left(\frac{5.6 + 3K}{3K} \right) = 20.50V$$