



$$J_R = J_{RMAX} \quad \text{VIO} \quad u_{in} = 28V \quad J_{RMAX} = J_{ZMAX} + J_L = J_{ZMAX} + \frac{U_Z}{R_L} \dots (1)$$

$$+u_{in} - R \cdot J_{RMAX} - U_Z = 0 \dots (2)$$

$$(1) \Rightarrow J_{RMAX} = 60 + 20 \text{ mA} = 80 \text{ mA}$$

$$\text{INS } (2) \Rightarrow +28 - R \cdot 0,080 - 20 = 0$$

$$R = 100 \Omega$$

$$u_{in} = 23V \quad \text{INS } (2) \Rightarrow$$

$$+23 - 100 \cdot J_R - 20 = 0 \Rightarrow J_R = 30 \text{ mA}$$

$$\text{INS } (1) \Rightarrow 30 = J_Z + 20 \Rightarrow J_Z = 10 \text{ mA}$$