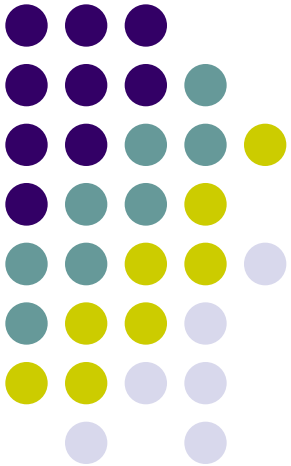
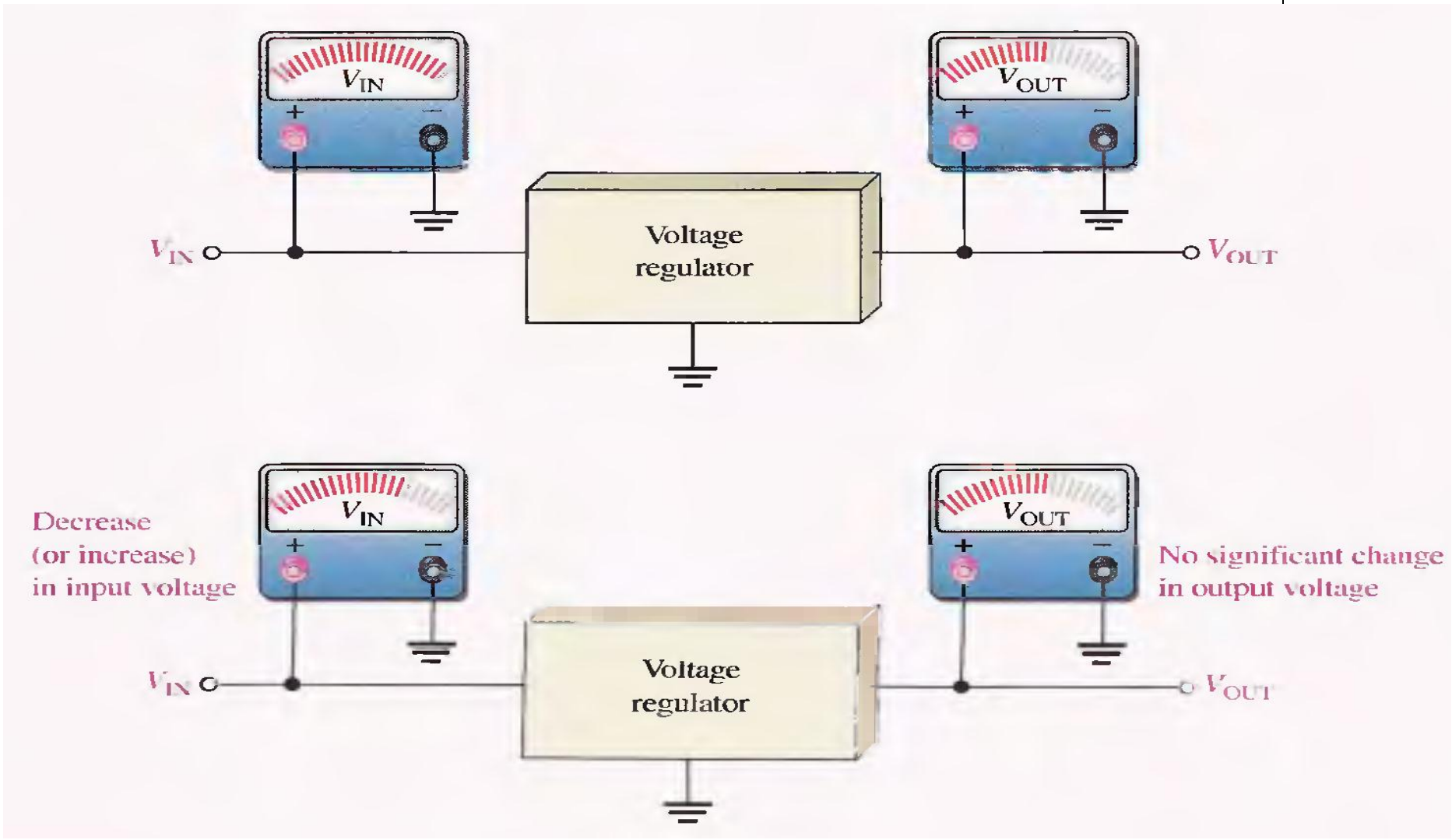
KỸ THUẬT ĐIỆN TỬ
(ELECTRONICS TECHNIQUE)

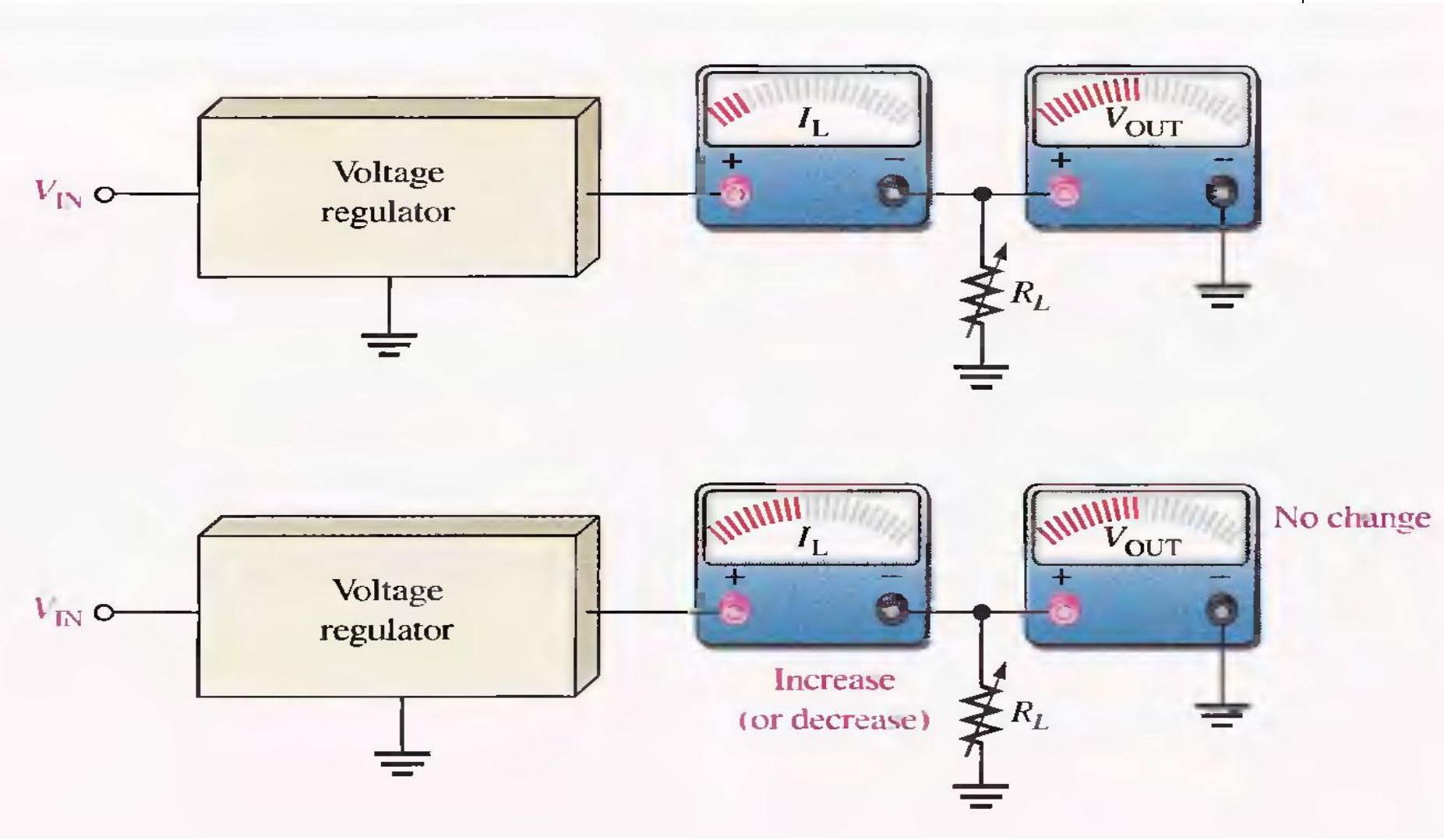


ỔN ÁP
(VOLTAGE REGULATORS)

ỔN ÁP (VOLTAGE REGULATORS)

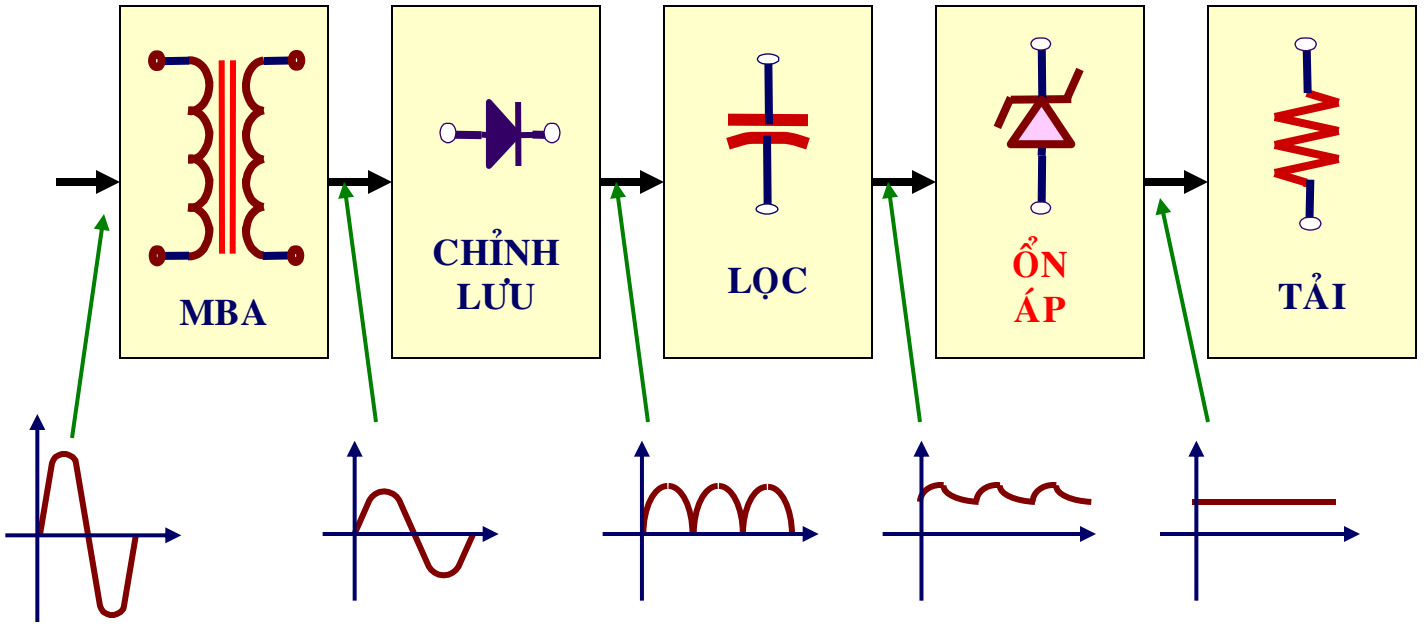


ỔN ÁP (VOLTAGE REGULATORS)



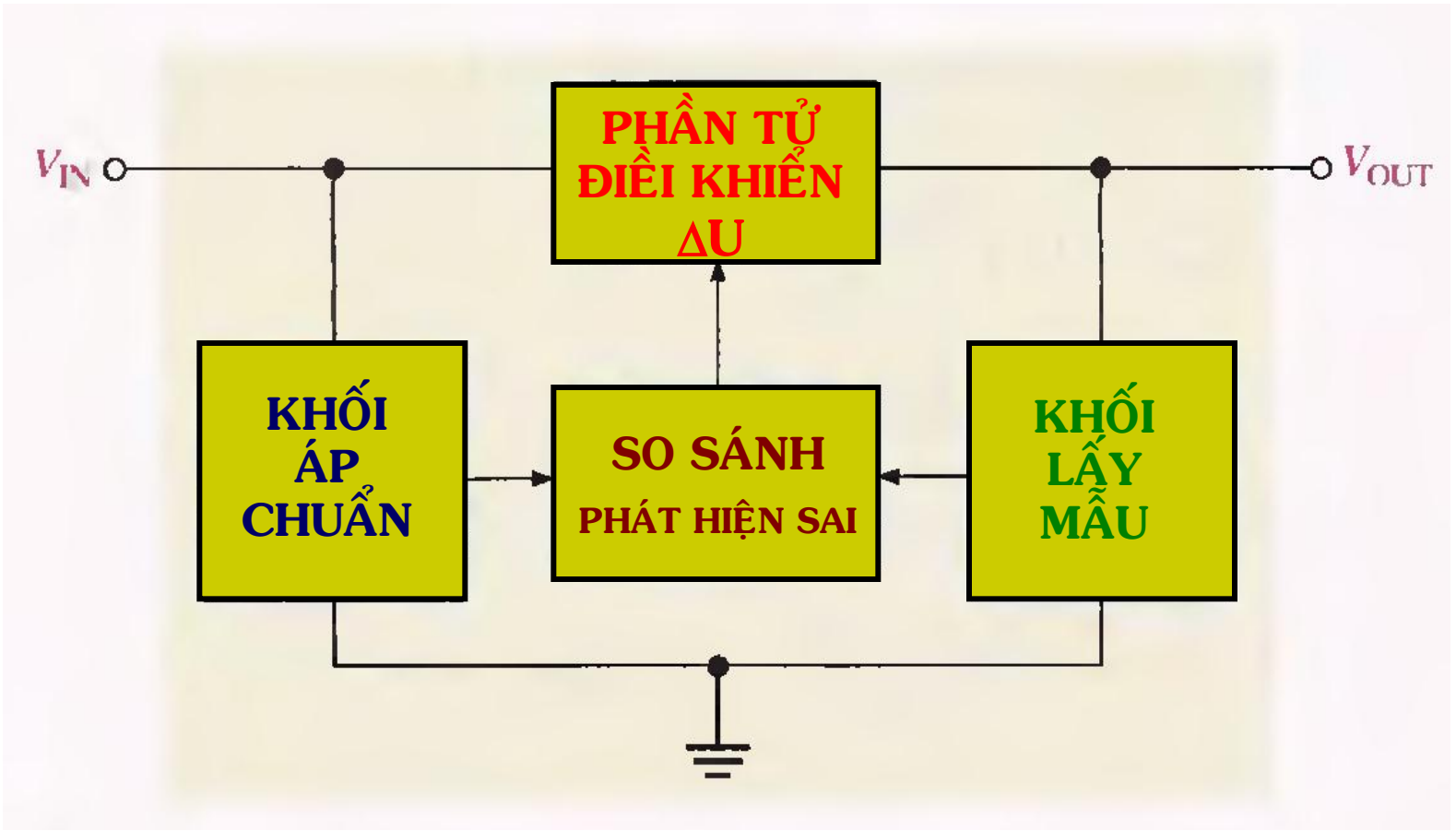
ỔN ÁP (VOLTAGE REGULATORS)

VỊ TRÍ ỔN ÁP TRONG KHỐI NGUỒN CUNG CẤP :



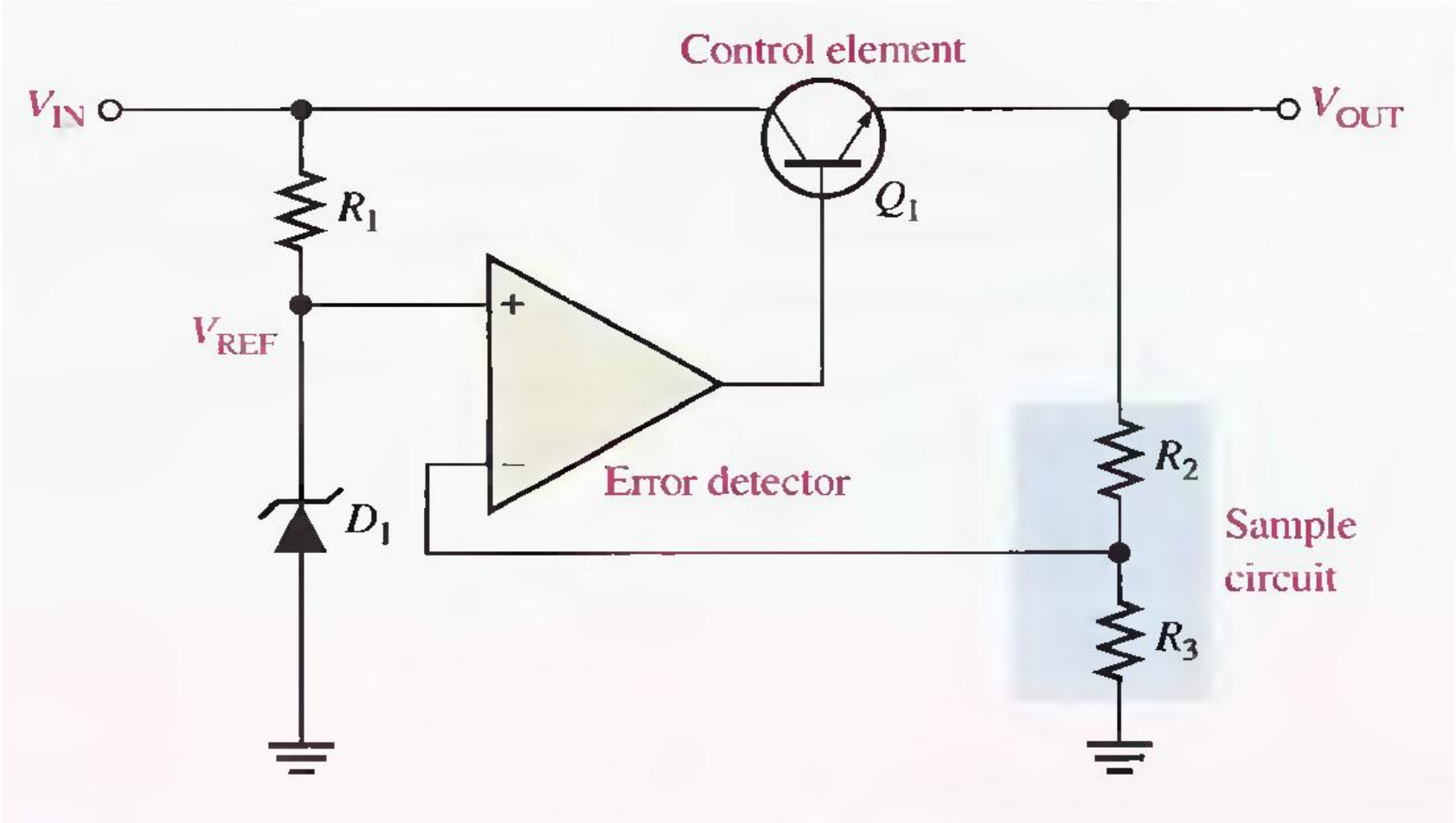
ỔN ÁP (VOLTAGE REGULATORS)

TỔ CHỨC CÁC BỘ PHẬN KHỐI ỔN ÁP NỐI TIẾP :



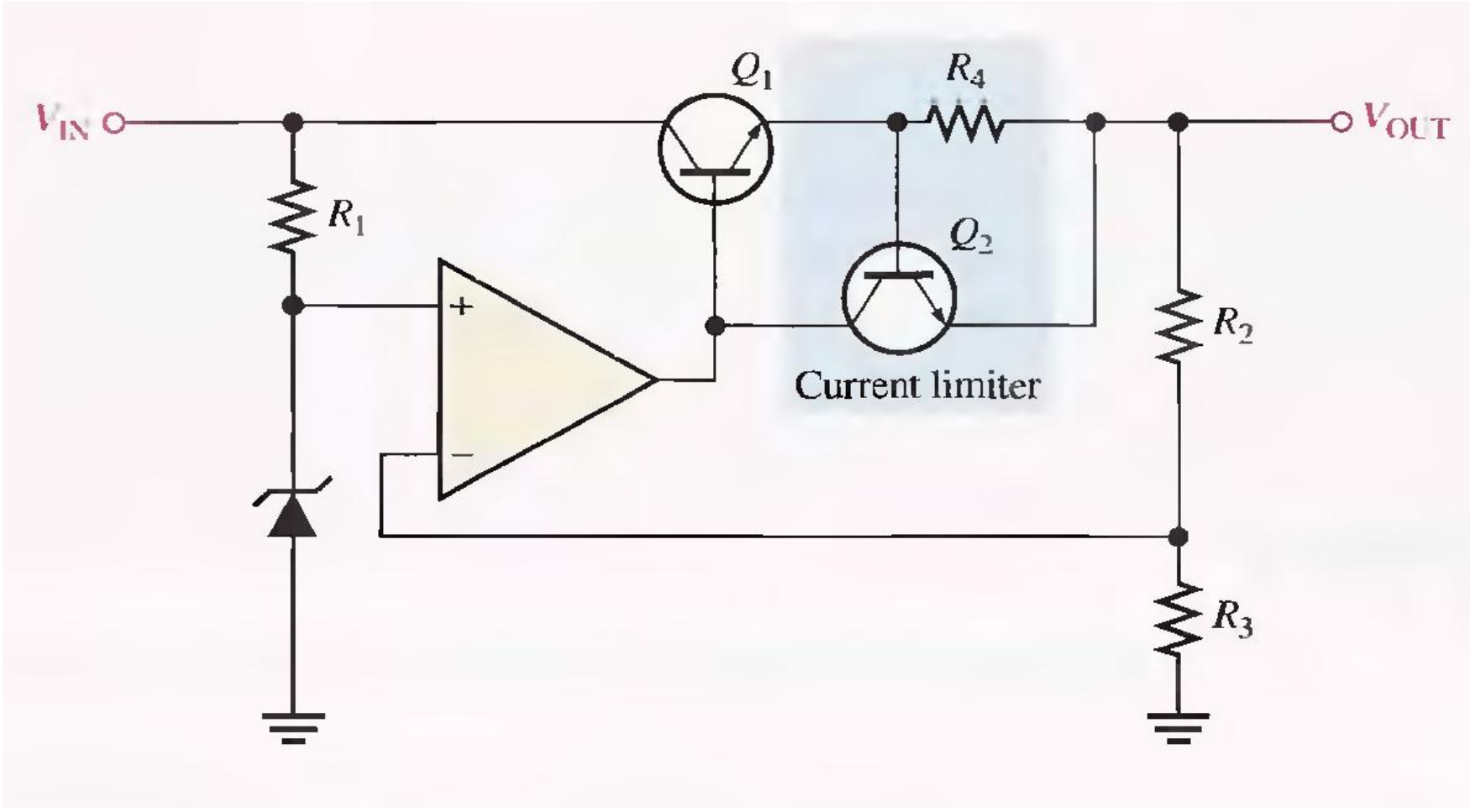
ỔN ÁP (VOLTAGE REGULATORS)

TỔ CHỨC CÁC BỘ PHẬN KHỐI ỔN ÁP NỐI TIẾP :



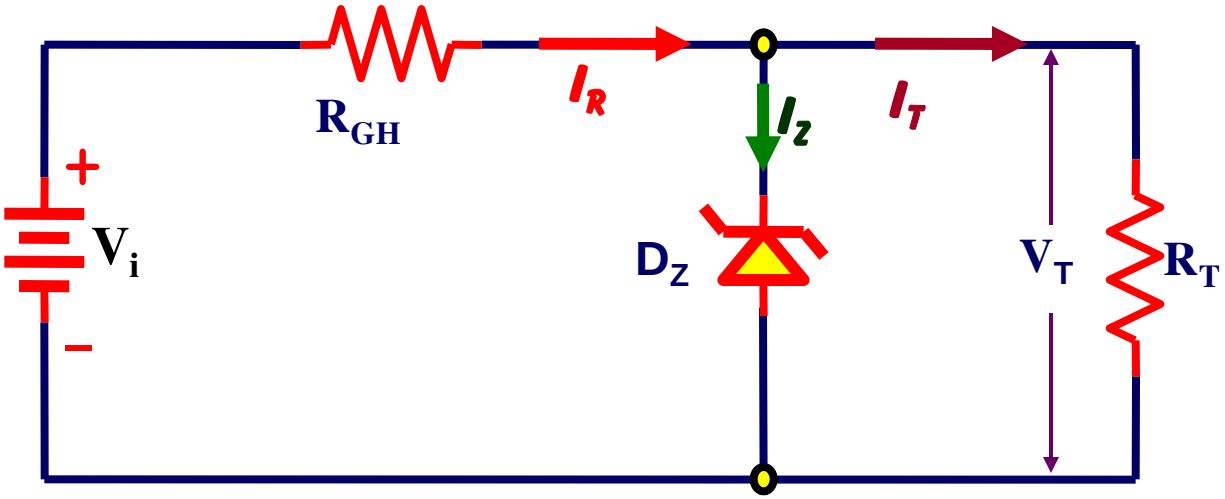
ỔN ÁP (VOLTAGE REGULATORS)

TỔ CHỨC CÁC BỘ PHẬN KHỐI ỔN ÁP NỐI TIẾP :



ỔN ÁP (VOLTAGE REGULATORS)

1 SỐ DẠNG ỔN ÁP NỐI TIẾP RỜI ĐƠN GIẢN :



$$R_{GH} = \frac{V_{iMAX} - V_Z}{I_{ZMAX}}$$

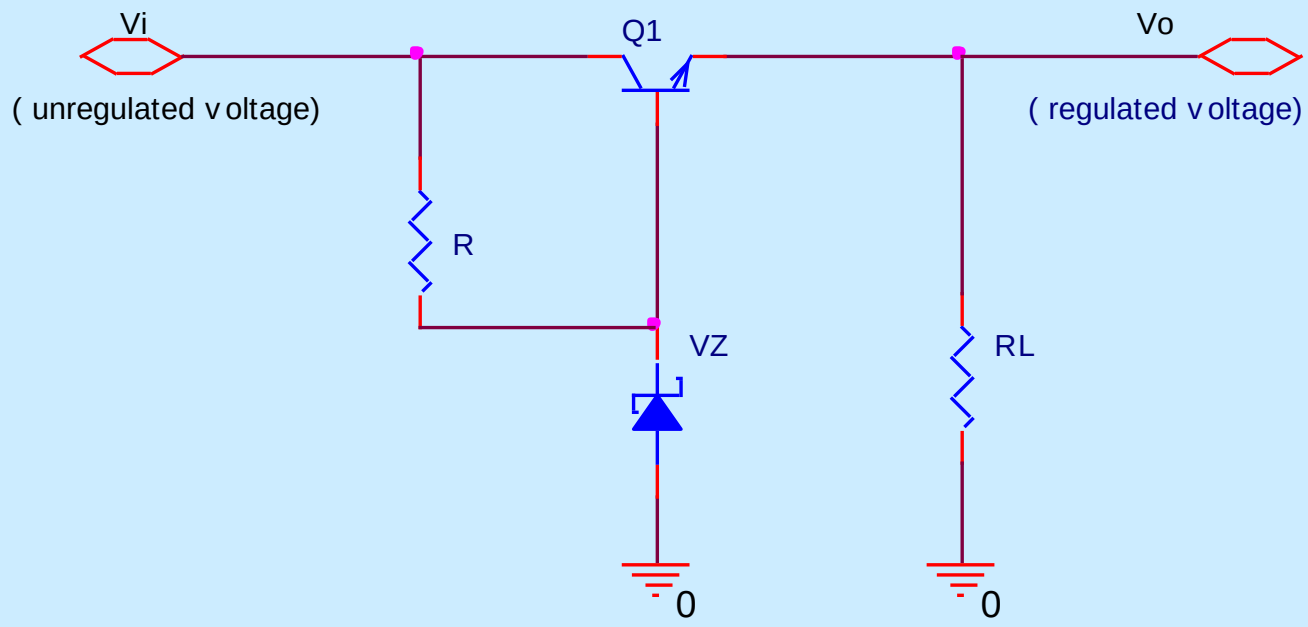
ỔN ÁP $V_T = V_Z$

$I_R = I_Z + I_T$

CHỈ ỔN ÁP KHI: $V_i \frac{R_T}{R_{GH} + R_T} \geq V_Z$

ỔN ÁP (VOLTAGE REGULATORS)

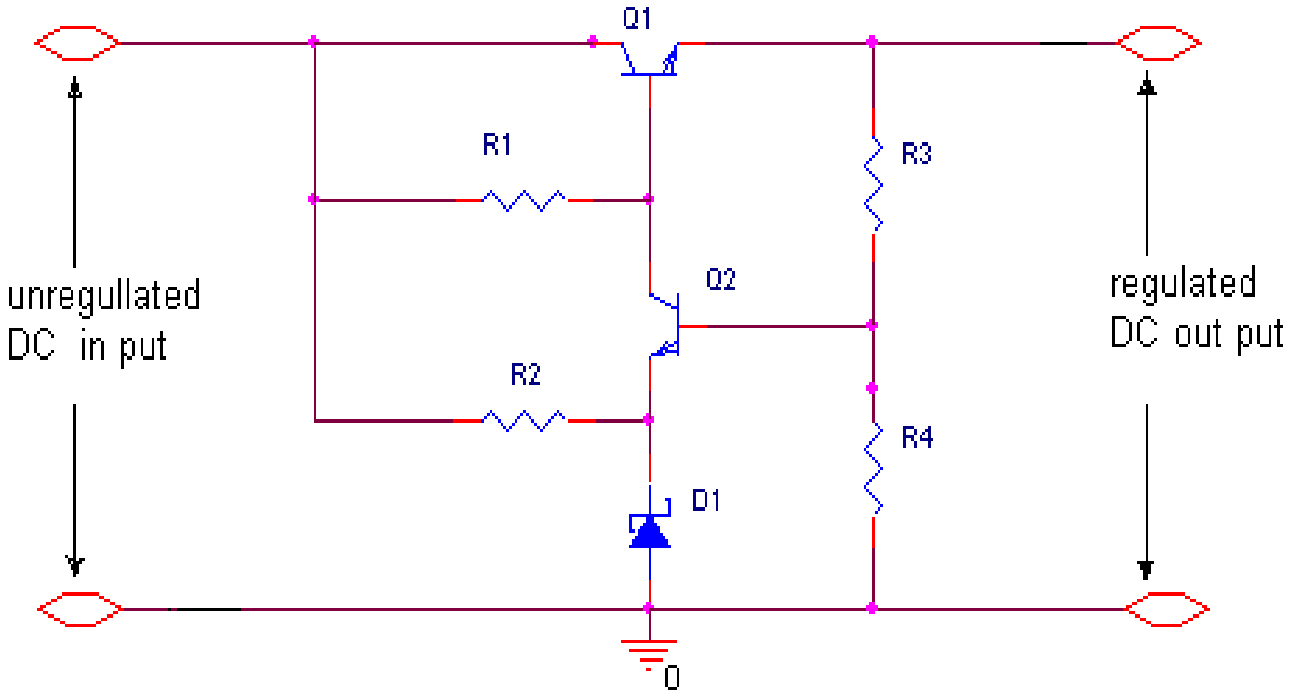
1 SỐ DẠNG ỔN ÁP NỐI TIẾP RỜI ĐƠN GIẢN :



$$V_T = V_Z - V_{BE}$$

ỔN ÁP (VOLTAGE REGULATORS)

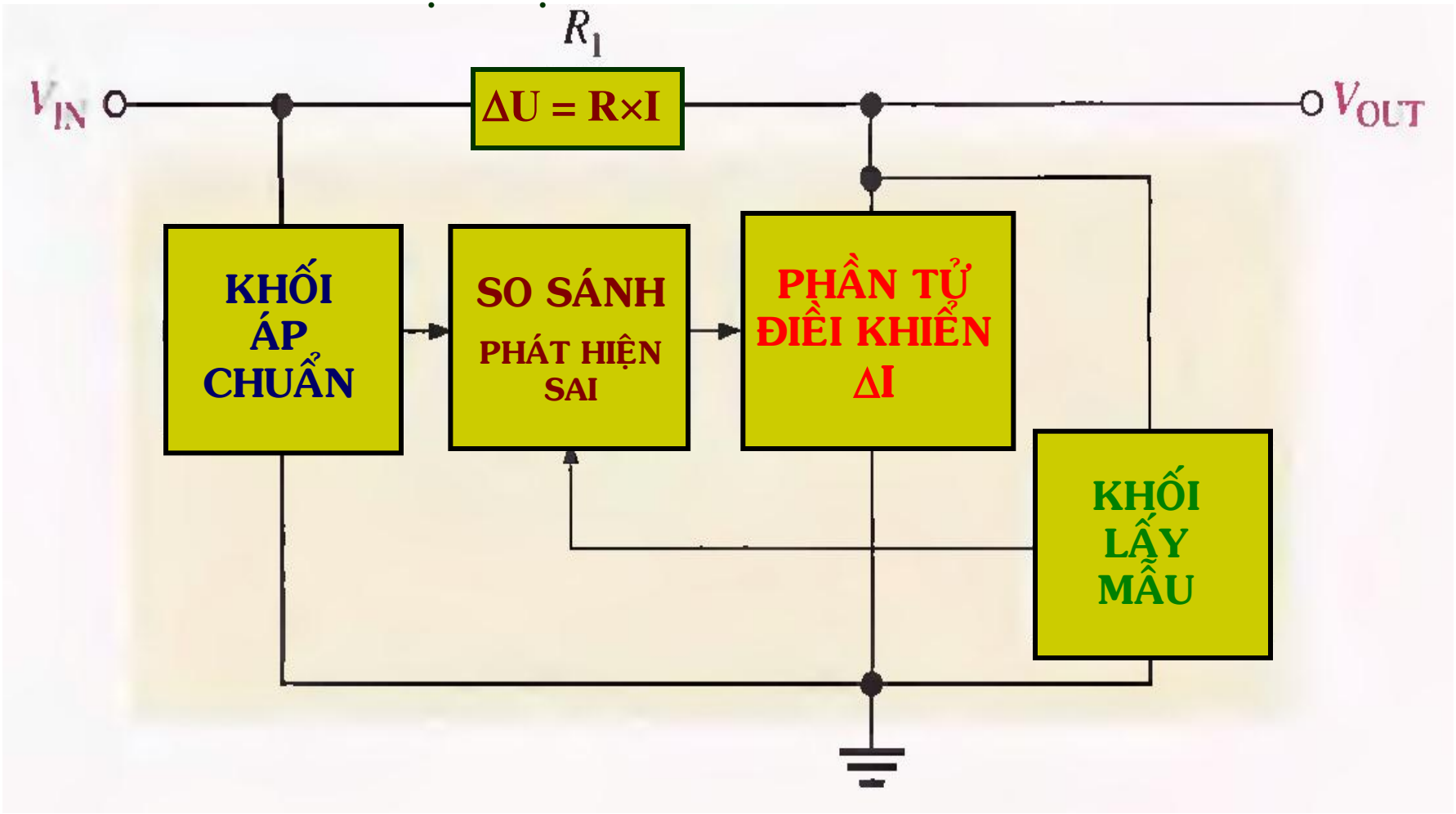
1 SỐ DẠNG ỔN ÁP NỐI TIẾP RỜI ĐƠN GIẢN :



$$V_T = (V_Z + V_{BE}) \frac{R_3 + R_4}{R_4}$$

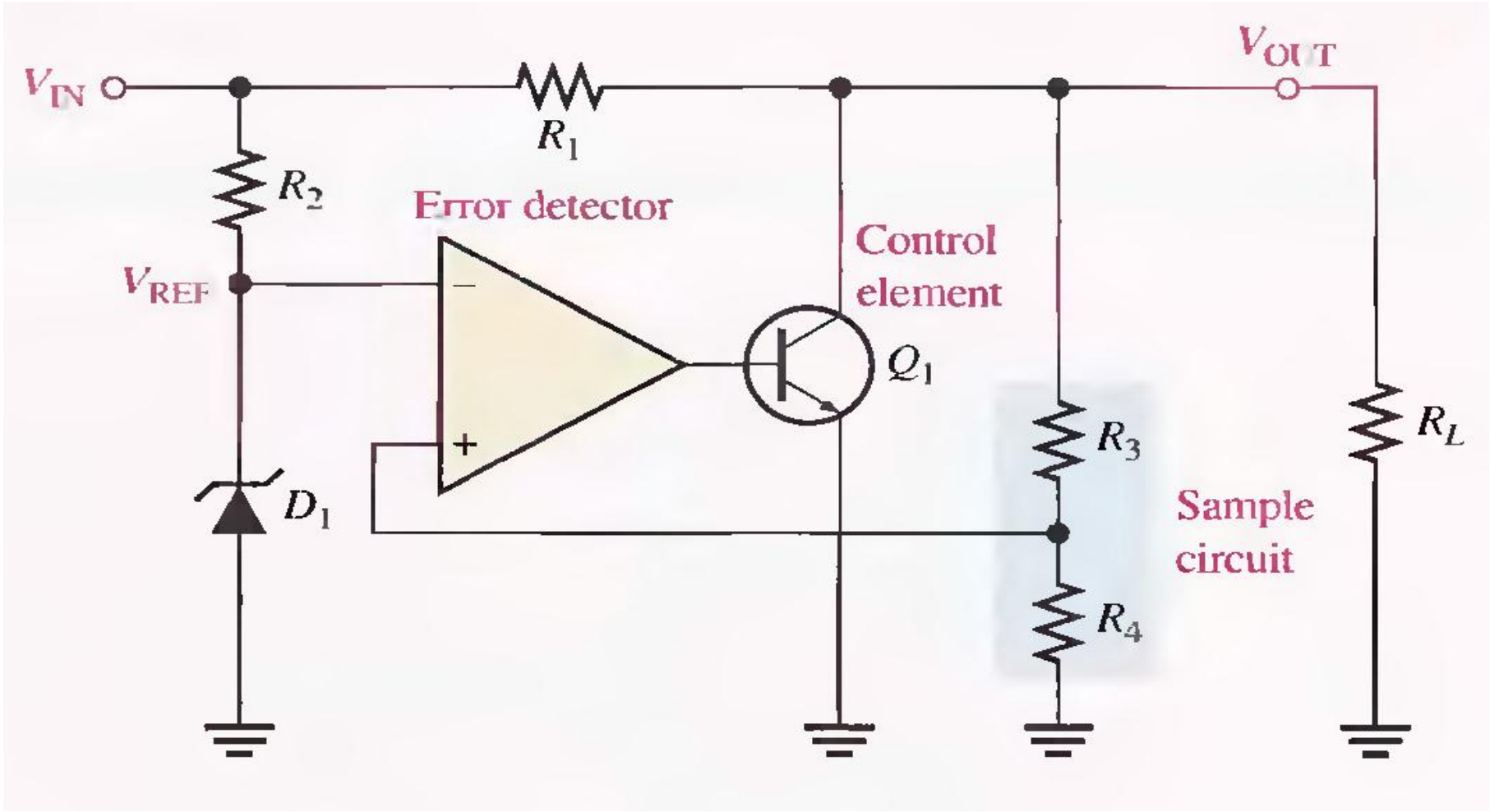
ỔN ÁP (VOLTAGE REGULATORS)

TỔ CHỨC CÁC BỘ PHẬN KHỐI ỔN ÁP SONG SONG :



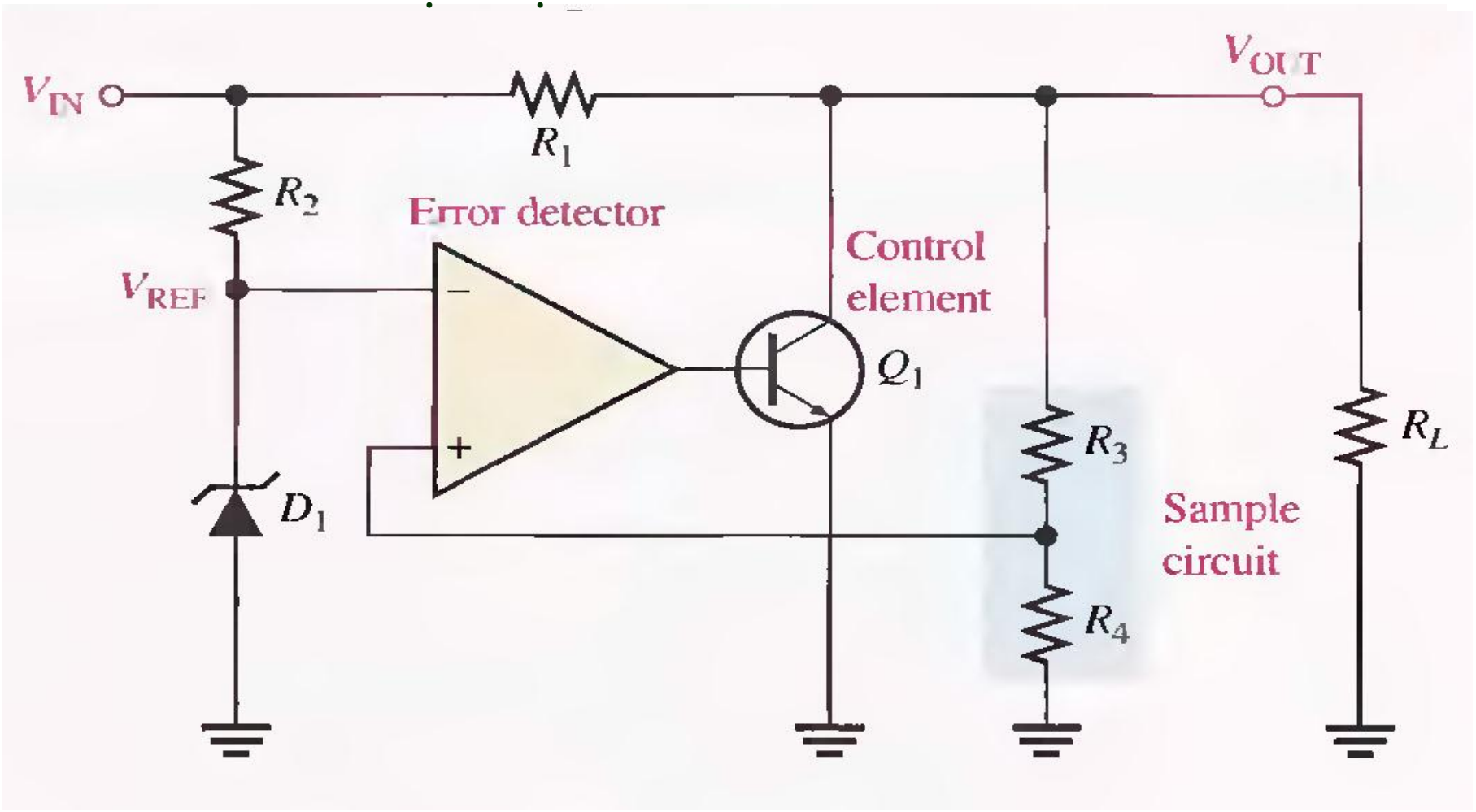
ỔN ÁP (VOLTAGE REGULATORS)

TỔ CHỨC CÁC BỘ PHẬN KHỐI ỔN ÁP SONG SONG :



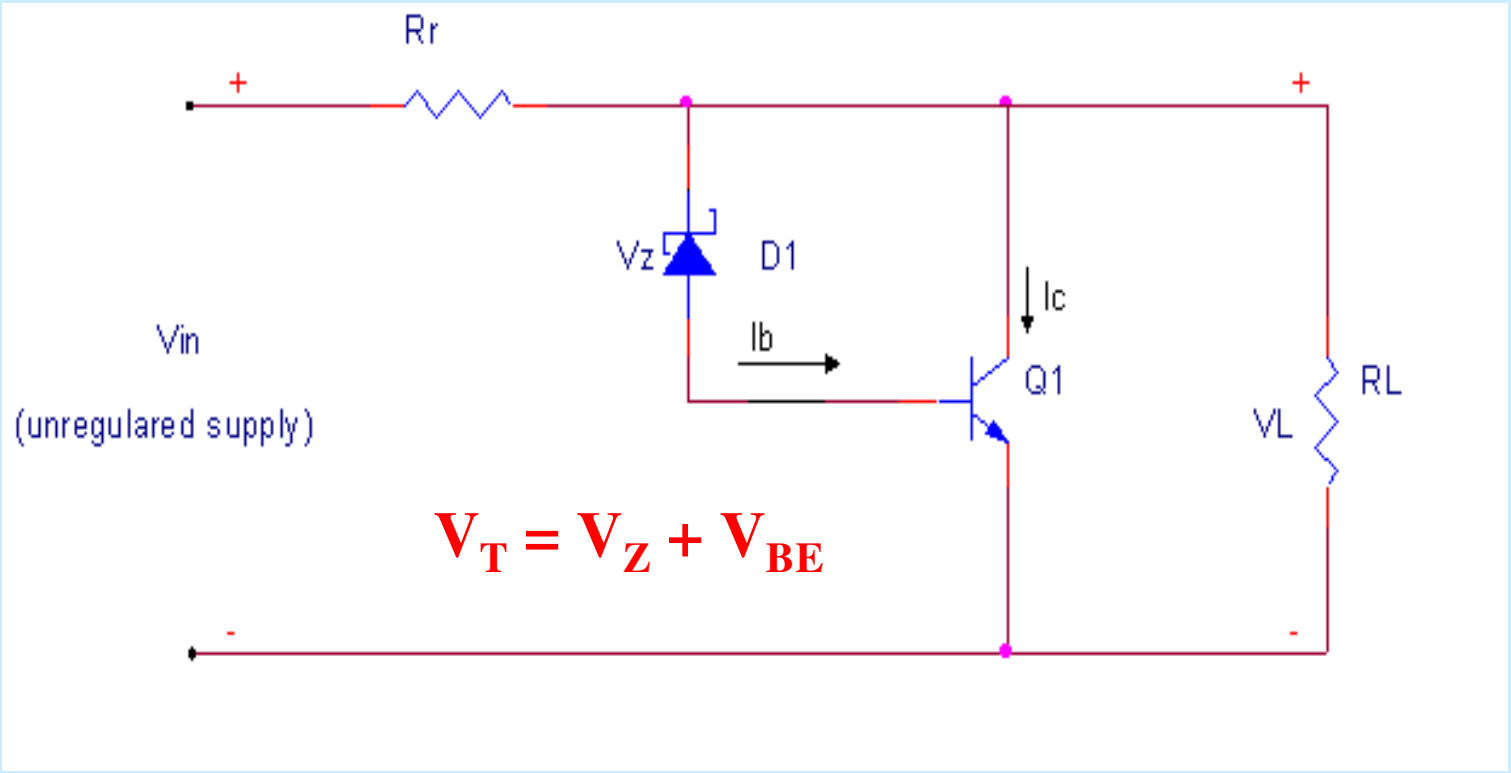
ỔN ÁP (VOLTAGE REGULATORS)

TỔ CHỨC CÁC BỘ PHẬN KHỐI ỔN ÁP SONG SONG :



ỔN ÁP (VOLTAGE REGULATORS)

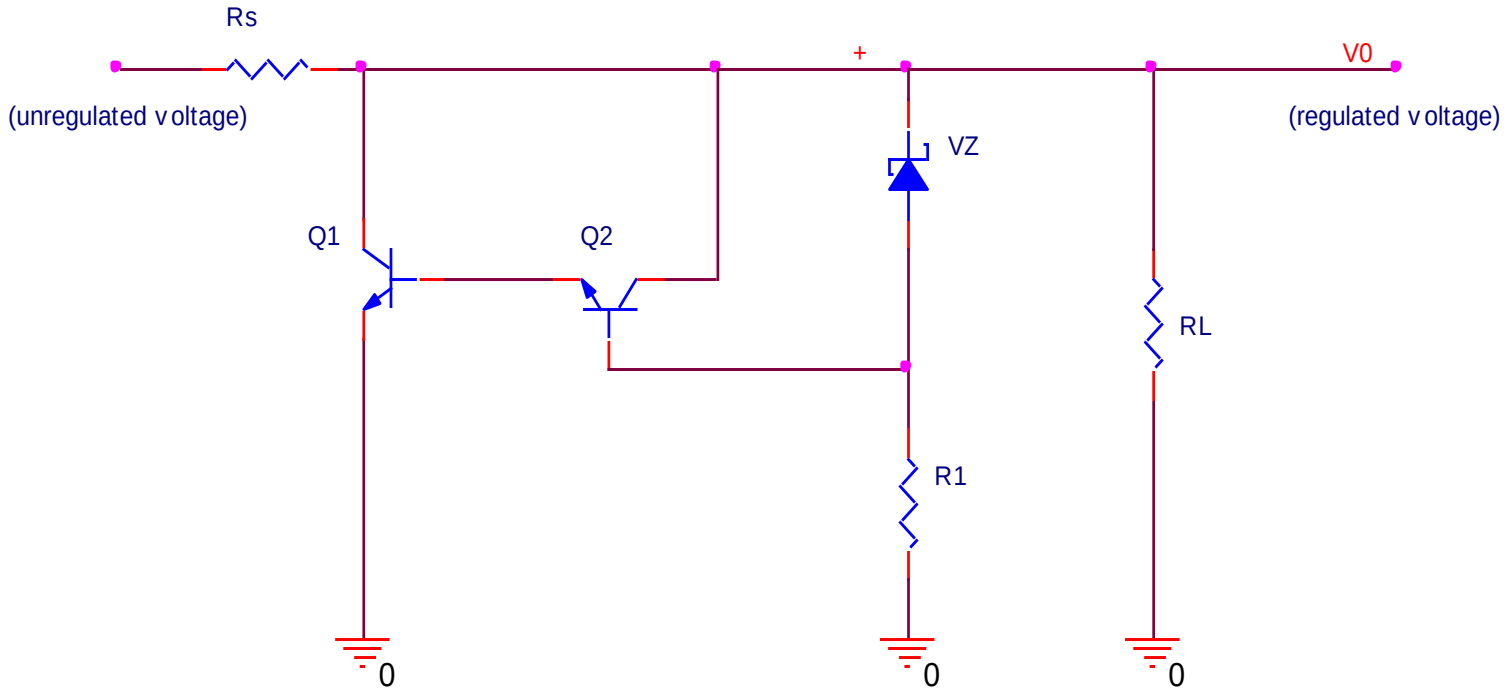
1 SỐ DẠNG ỔN ÁP SONG SONG RỜI ĐƠN GIẢN :



$$V_T = V_Z + V_{BE}$$

ỔN ÁP (VOLTAGE REGULATORS)

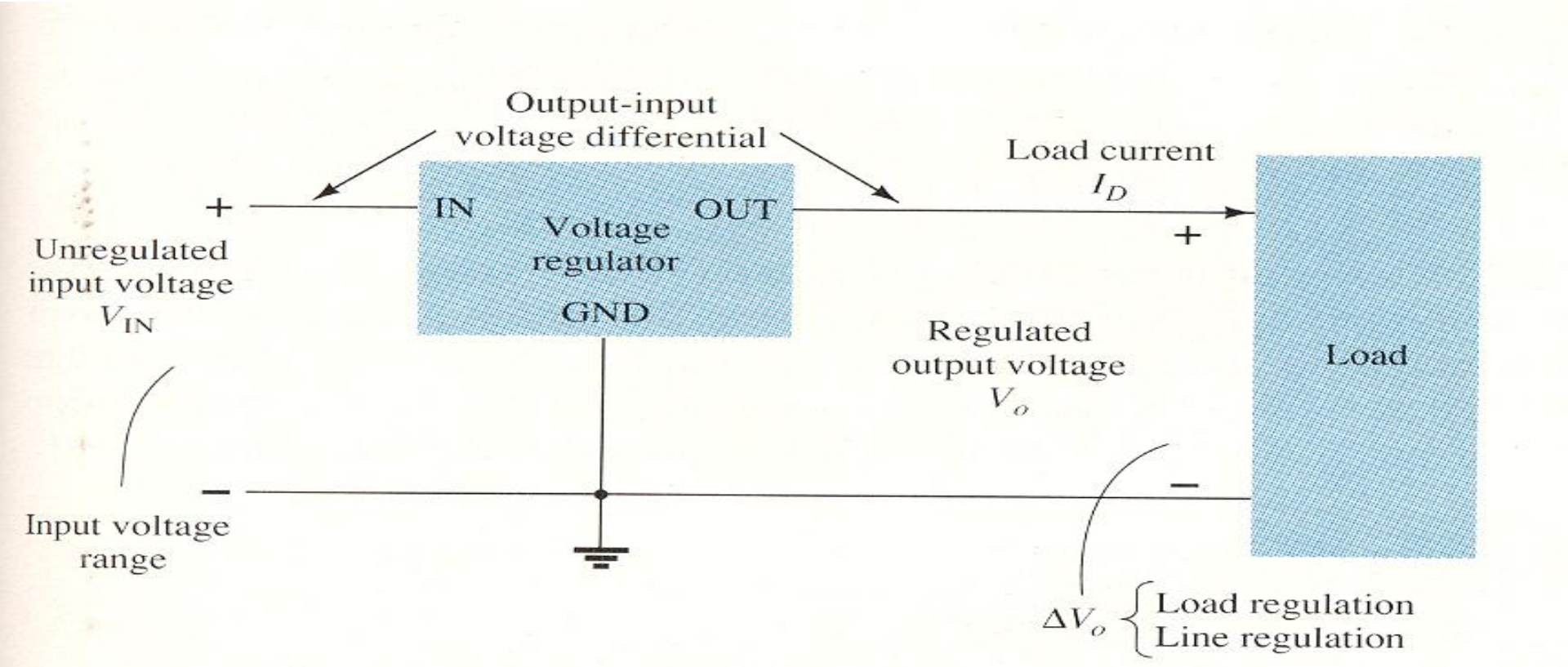
1 SỐ DẠNG ỔN ÁP SONG SONG RỜI ĐƠN GIẢN :



$$V_T = (V_Z + V_{BE1} + V_{BE2})$$

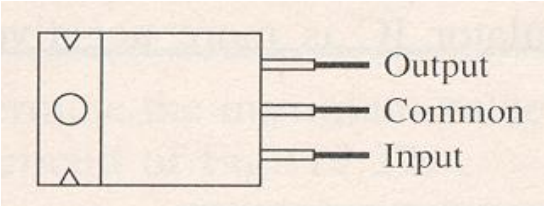
ỔN ÁP (VOLTAGE REGULATORS)

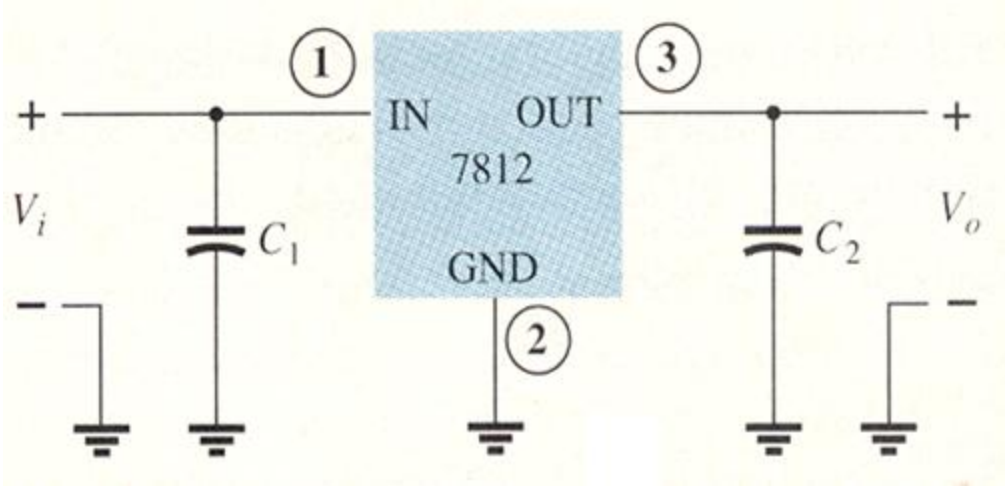
ỔN ÁP DƯƠNG IC



ỔN ÁP (VOLTAGE REGULATORS)

ỔN ÁP DƯƠNG IC 78xx



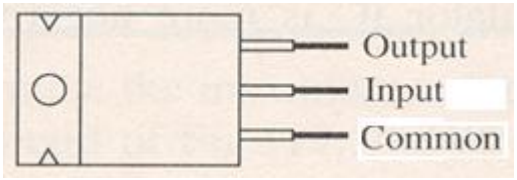


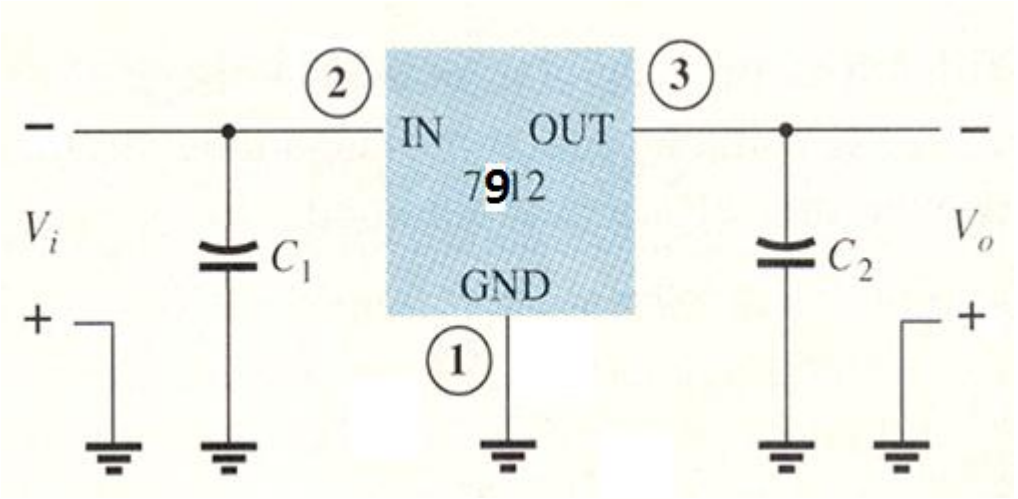
$Iout_{max}$ = 1A

Vin > Vout + 2V : 3V

ỔN ÁP (VOLTAGE REGULATORS)

ỔN ÁP ÂM IC 79xx

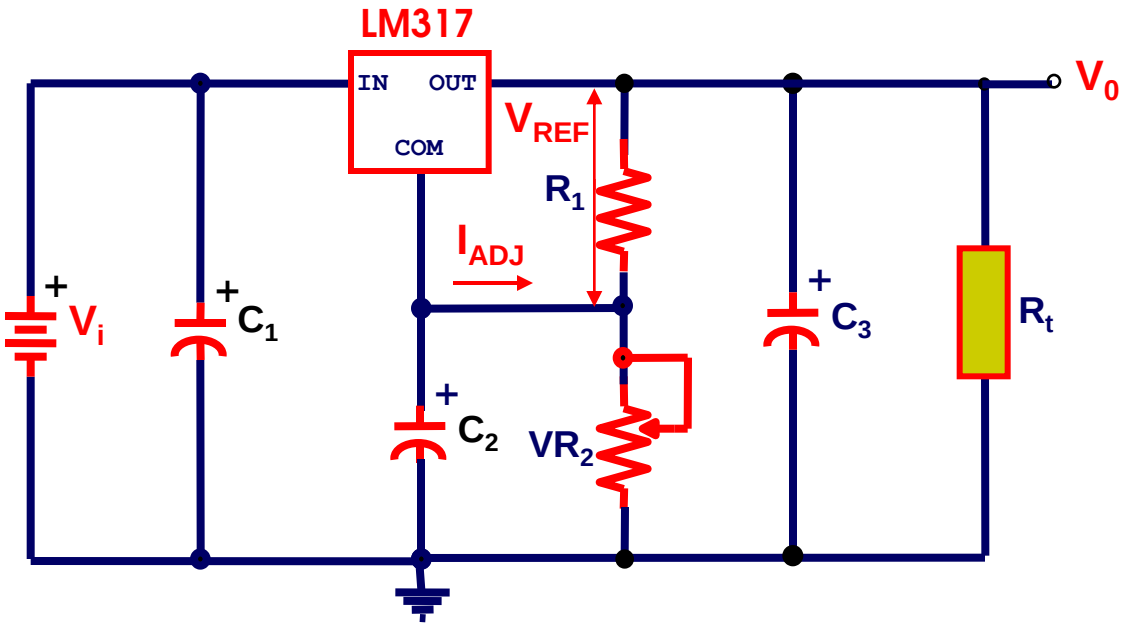


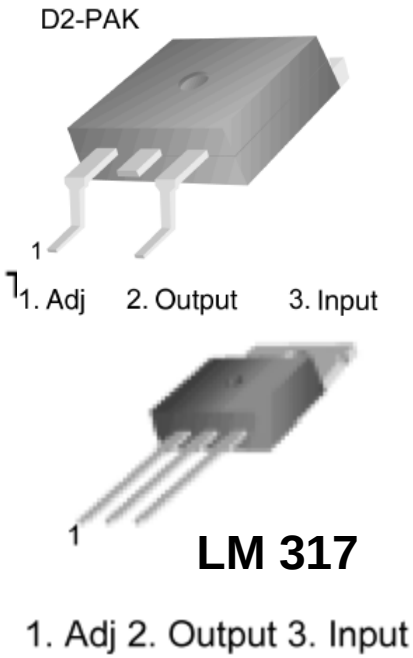


$Iout_{max}$= 1A

ỔN ÁP (VOLTAGE REGULATORS)

ỔN ÁP DƯƠNG IC ĐIỀU CHỈNH ĐƯỢC :

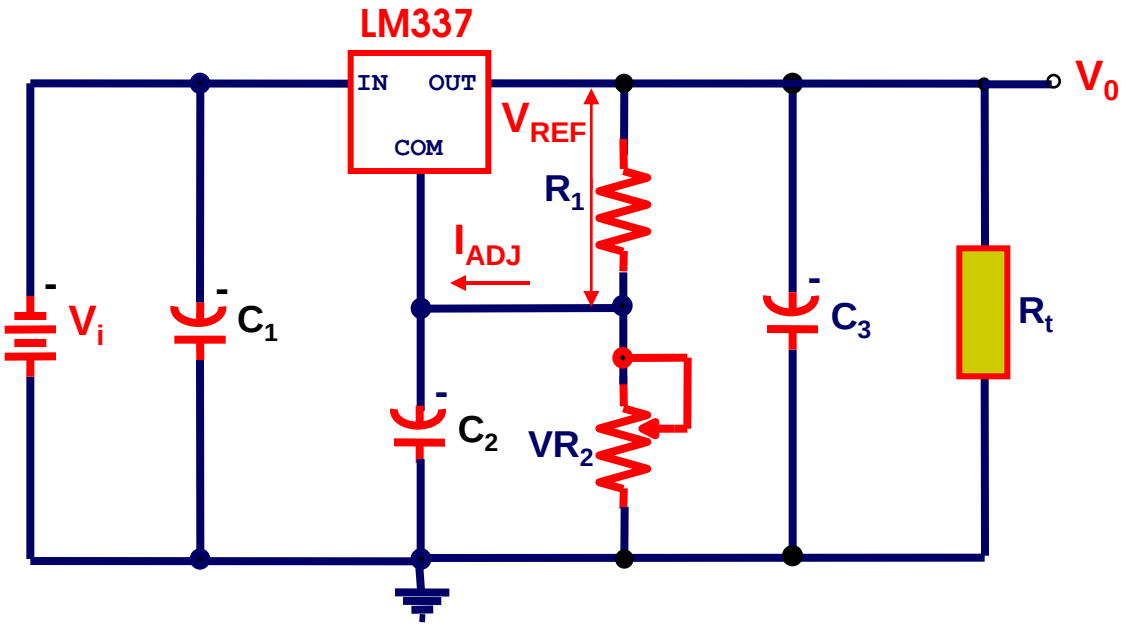


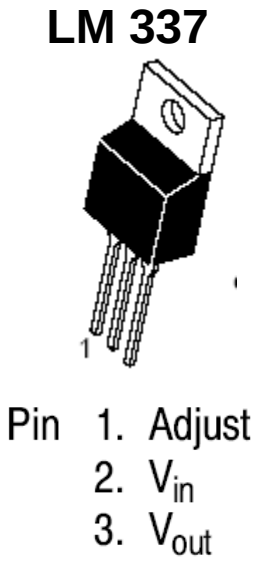


$$V_{OUT} = V_{REF}\left(1 + \frac{R_2}{R_1}\right) + I_{ADJ}R_2$$

ỔN ÁP (VOLTAGE REGULATORS)

ỔN ÁP ÂM IC ĐIỀU CHỈNH ĐƯỢC :

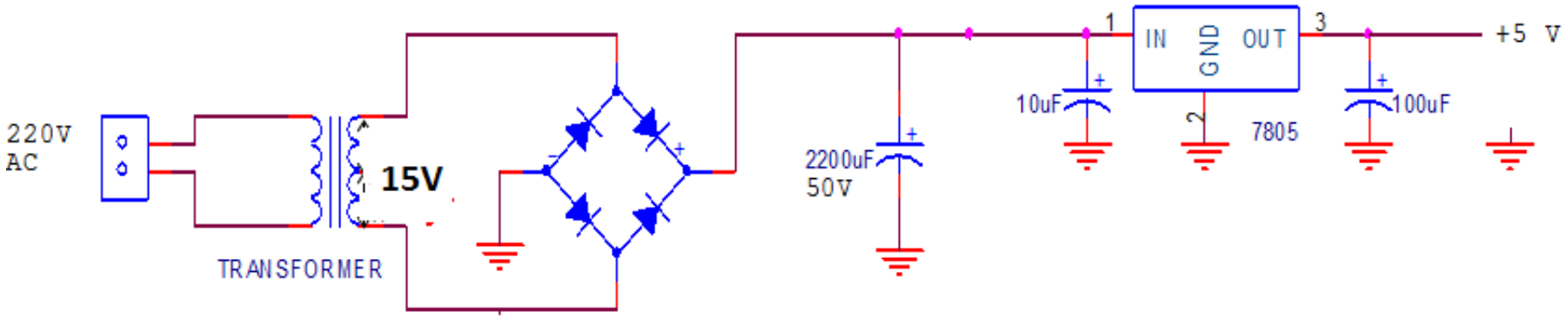


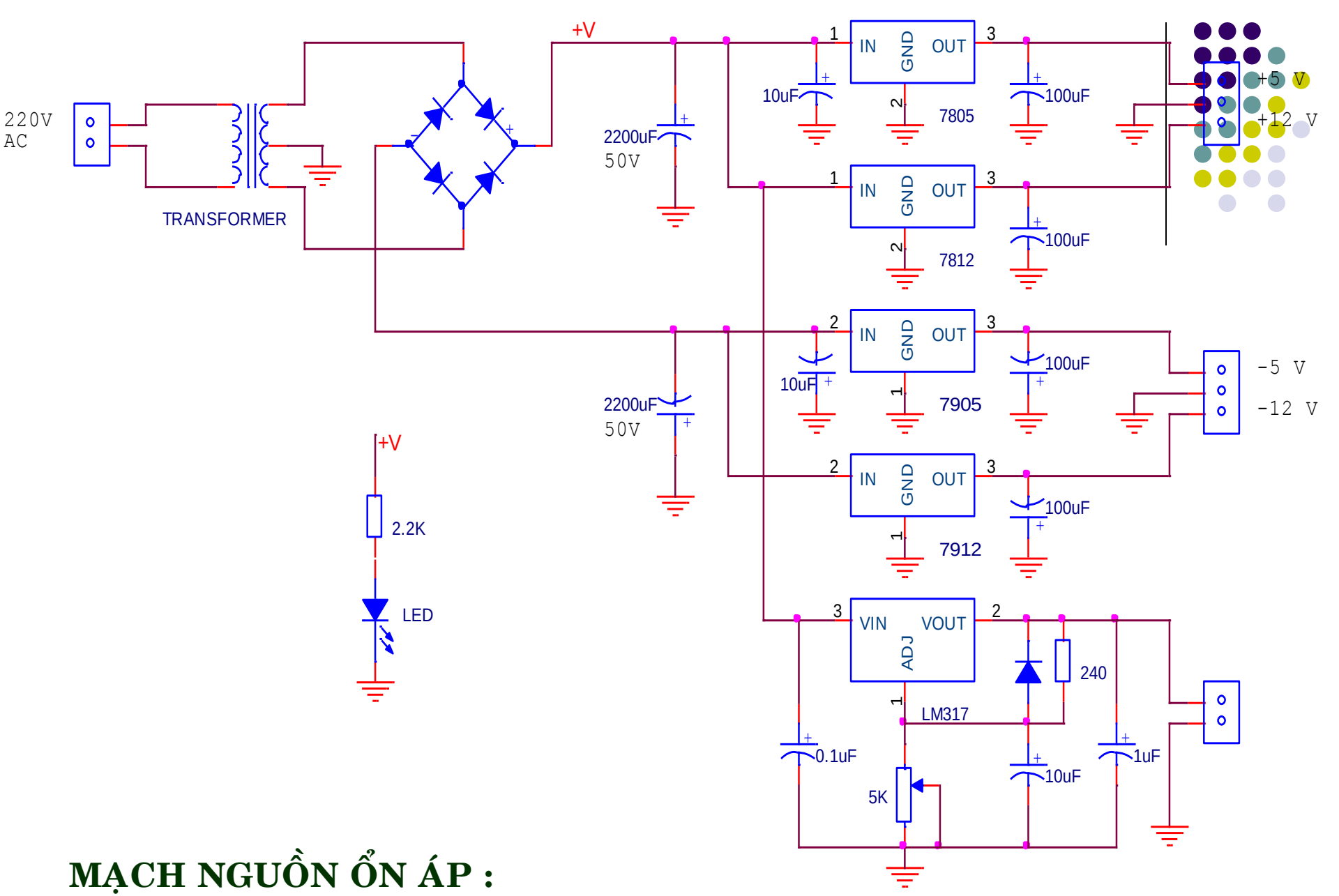


$$V_{OUT} = V_{REF}\left(1 + \frac{R_2}{R_1}\right) + I_{ADJ}R_2$$

ỔN ÁP (VOLTAGE REGULATORS)

MẠCH NGUỒN ỔN ÁP 5V:





MẠCH NGUỒN ỔN ÁP :