× ----- × ____

Supercopacitor specifications;

configuration used in our project is possible serial connection.

2.7VIVOF

(equivolat =
$$\left(\frac{1}{c_1} + \frac{1}{c_2}\right)^{-1}$$

= $\left(\frac{1}{100} + \frac{1}{100}\right)^{-1}$

= $\left(\frac{2}{100}\right)^{-1}$

= $\frac{50 \, \text{F}}{2.7 \, \text{V}}$

configured design

\$\frac{2.7\times2}{3} \frac{5.4\times 50F}{50F} (equivalent copacitonce of both copacitons)

autent consumption of probotype bus = 200 mA $t \text{ discharge} = \frac{(V_f - V_i)}{I} \times C$

$$t \text{ discharge} = \frac{(5.1-25)}{0.2} \times 50$$

= 650 sec

$$t = t clischange = 10.833 mins$$

changing time calculations:

Assuming R Licharging resistor) value very small. suppose R = 10 m-2

T = changing = RC = 10×10-3×50 constant = 0.5

time = 50 = 2.5 sec

- Ideal condition.

practically it will depend on lot of factors like changing aurount, resistance of wires, copositor technology used, etc.

. Through practical testing and observation changing time of model is found about to be 1.2 min

