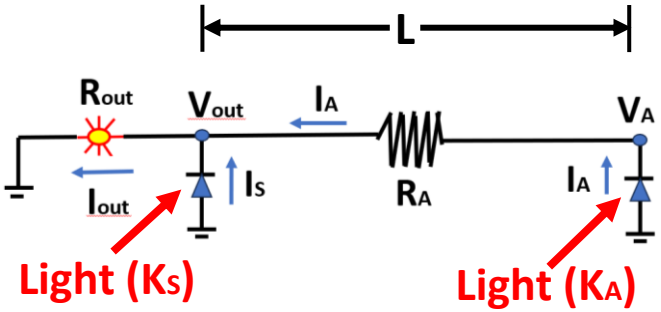
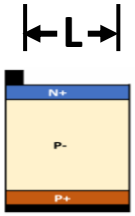
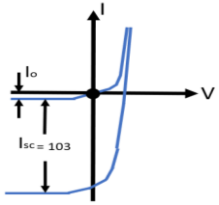
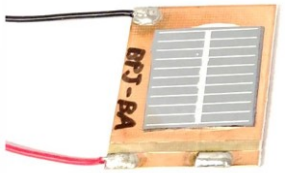
(1)









微細MASK使用

L = 1 mm ;

$I_{SC1} = I_S + I_A = 103$ mA

(1.1) $I_{out} = I_S + I_A$;

(1.2) $I_S = (A_S)(J_S) = (A_S)(K_S)\{ \exp(- V_{out}/kT) - 1 \}$;

(1.3) $I_A = (A_A)(J_A) = (A_A)(K_A)\{ \exp(- V_A /kT) - 1 \}$;

(1.4) $(V_{out} - V_A) = (I_A)(R_A)$;

(1.5) $A_A >> A_S$;

(1.6) $R_A << R_{out} = (V_{out}) / (I_{out})$;

	I_0 [A]	n	Rs [Ω]	Rp [Ω]	V_{OC} [V]	I_{SC} [mA]	η [%]	S [cm^2]
(1) Single				160	0.60	103	8.0	4.3
(2) Single B	2.4×10^{-10}	1.04	2.00	14.4M	0.46	8.4	0.29	9
(3) Double			2.37	15.2k	0.46	12.4	0.32	9