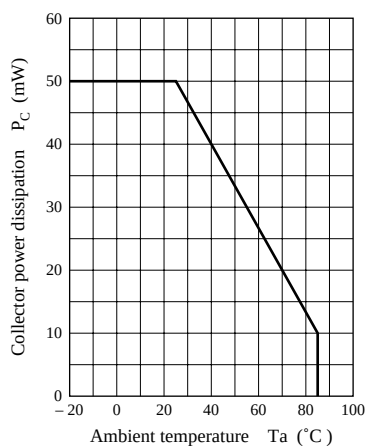
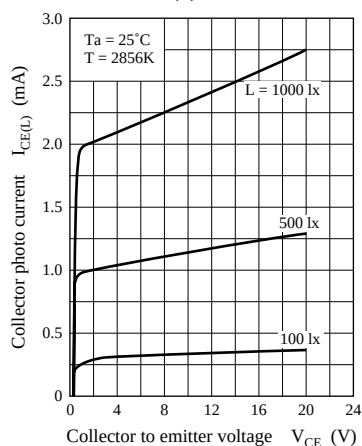
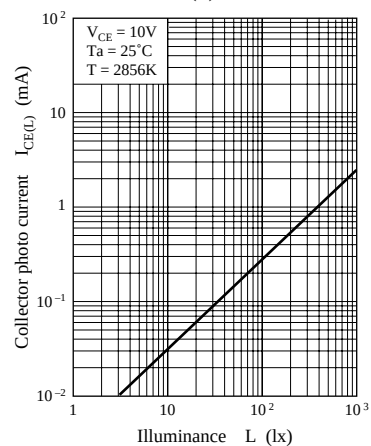
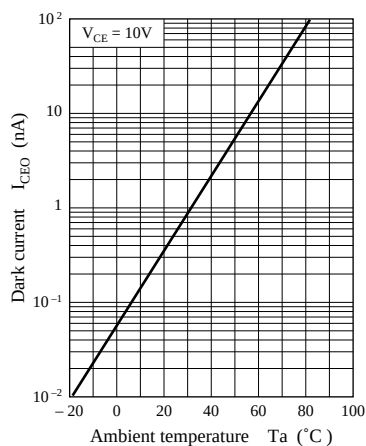
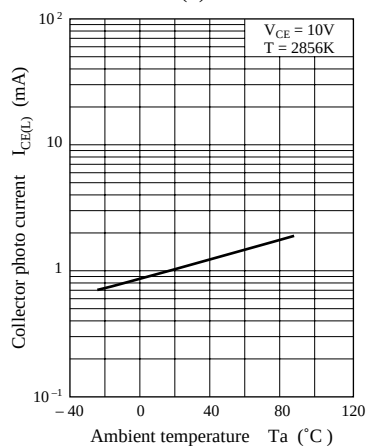
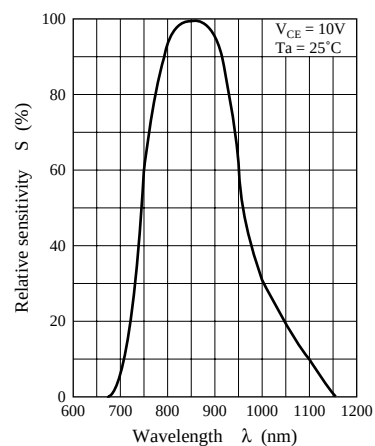
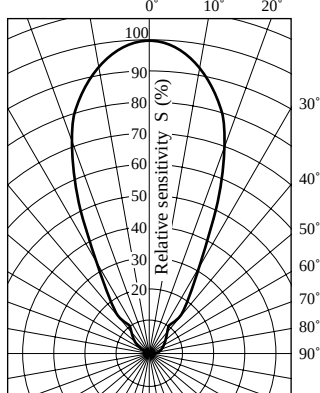
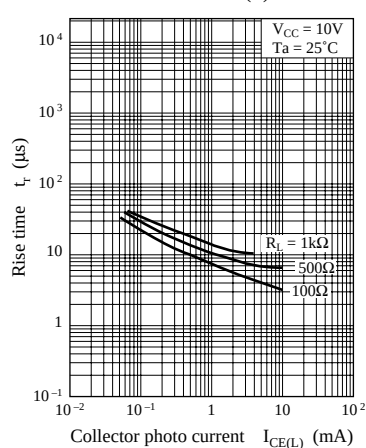


$P_C - T_a$  $I_{CE(L)} - V_{CE}$  $I_{CE(L)} - L$  $I_{CEO} - T_a$  $I_{CE(L)} - T_a$ 

Spectral sensitivity characteristics



Directivity characteristics

 $t_r - I_{CE(L)}$  $t_f - I_{CE(L)}$ 