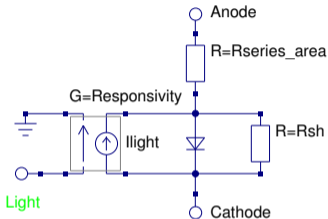
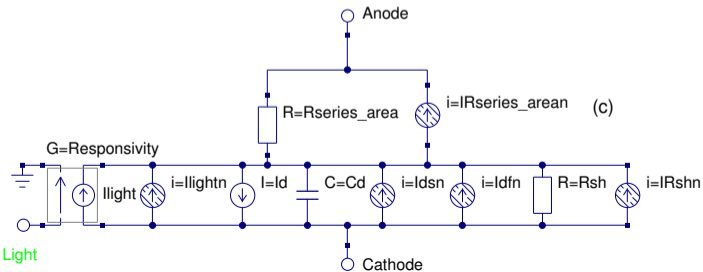


(a)



(b)



(c)

PD1
 $N=1.35$
 $R_{series}=1e-3$
 $I_s=0.34e-12$
 $B_v=60$
 $I_{bv}=1e-3$
 $V_j=0.7$
 $C_{j0}=60e-12$
 $M=0.5$
 $Area=1.0$
 $T_{nom}=26.85$
 $F_c=0.5$
 $T_t=10e-9$
 $X_{ti}=3.0$
 $E_g=1.16$
 $Responsivity=0.5$
 $R_{sh}=5e8$
 $QE_{percent}=80$
 $\lambda=900$
 $LEVEL=1$
 $K_f=1e-12$
 $A_f=1.0$
 $F_{fe}=1.0$
 $Temp=26.85$