Nomenclature

Latin letters

A	absorptivity	[–]
a	acceleration,	[$m \cdot s^{-2}$]
D	diffusion coefficient	[$m^2 \cdot s^{-1}$]
E	energy	[J]
f	Fermi-Dirac distribution	[–]
F	force	[N]
FF	fill factor	[–]
G	generation rate	[m^{-3} s^{-1}]
g	density of states function	[$m^{-3} \cdot J^{-1}$]
I	irradiance	[$W \cdot m^{-2}$]
I	current	[A]
J	current density	[$A \cdot m^{-2}$]
k	wave number	[m^{-1}]
ln, lp	width of space charge region	[m]
L	diffusion length	[m]
Le	radiance,	[$W \cdot m^{-2} \cdot sr^{-1}$]
Le*	basic radiance,	[$W \cdot m^{-2} \cdot sr^{-1}$]
m	mass	[kg]
m*	effective mass	[kg]
N	particle density	[m^{-3}]
n	electron concentration	[m^{-3}]
n	refractive index (real part)	[–]
P	power	[W]
p	hole concentration	[m^{-3}]
R	recombination rate	[$m^{-3} \cdot s^{-1}$]
R	reflectivity	[–]
S	Surface area	[m^2]
T	temperature	[K]
T	transmissivity	[–]
V	electric potential	[V]
v	velocity	[$m \cdot s^{-1}$]
W	width	[m]

Greek letters

α	absorption coefficient	[m^{-1}]
ε	electric permittivity	[$F \cdot m^{-1}$]
ζ	magnetic field	[$A \cdot m^{-1}$]
η	efficiency	[–]
θ	polar angle, generic angle	[–]

κ	*r*efractive index (imaginary part)	[–]
λ	wavelength	[m]
μ	mobility	[$m^2 \cdot V^{-1} \cdot s^{-1}$]
ν	frequency	[s^{-1}]
ξ	electric field	[$V \cdot m^{-1}$]
ρ	charge density	[$A \cdot s \cdot m^{-3}$]
σ	capture cross section	[m^2]
τ	lifetime, relaxation time	[s]
φ	azimuth angle	[–]
φ	spectral photon flux	[$m^{-2} \cdot s^{-1} \cdot nm^{-1}$]
Φ_{ph}	photon flux	[$m^{-2} \cdot s^{-1}$]
χ	dielectric susceptibility	[–]
χ	electron affinity	[eV]
Ψ_{ph}	photon flow	[s^{-1}]
Ω	solid angle	[–]
ω	angular frequency	[s^{-1}]

Subscripts

0	in vacuo
A	acceptor
C	conduction band
D	donor
d	drift
F	Fermi
G	bandgap
i	intrinsic, incident
L	light
mpp	maximum power point
n	n-type, electron
p	p-type, hole
OC	open circuit
ph	photon
r	reflected
SC	short circuit
T	transmitted
th	thermal
V	valence band