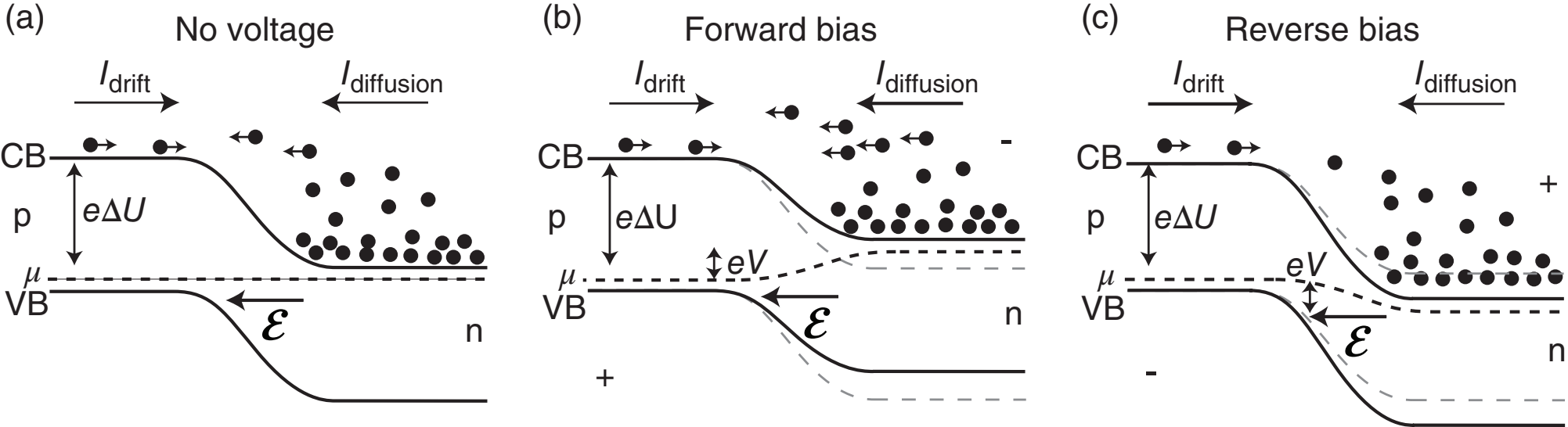
(a)
No voltage
I_{drift}
$I_{diffusion}$
CB
p
$e\Delta U$
μ
VB
$\mathcal{E}$
n
(b)
Forward bias
I_{drift}
$I_{diffusion}$
CB
p
$e\Delta U$
eV
μ
VB
$\mathcal{E}$
n
+
-
(c)
Reverse bias
I_{drift}
$I_{diffusion}$
CB
p
$e\Delta U$
eV
μ
VB
$\mathcal{E}$
n
+
-