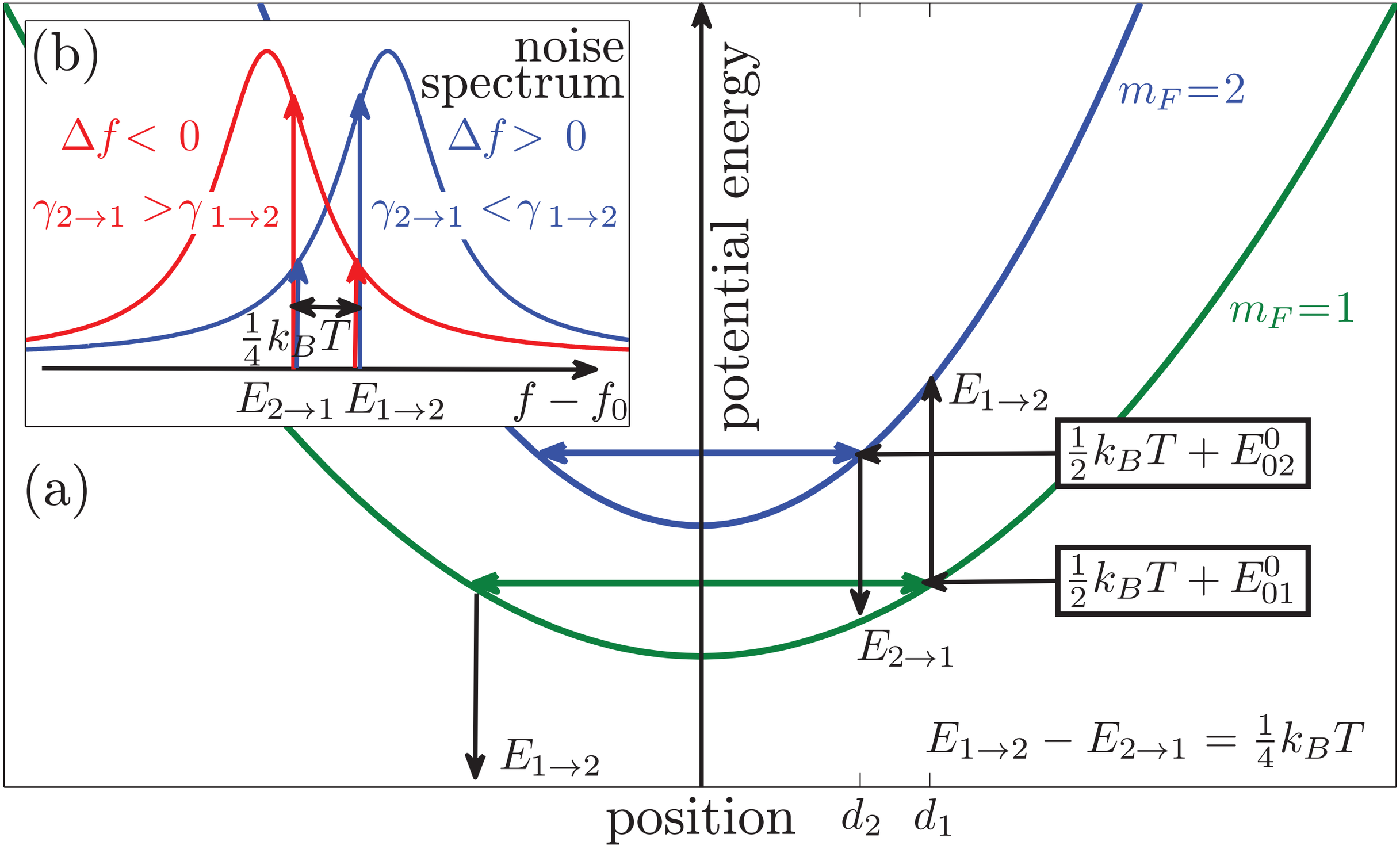
(b)
noise spectrum
$\Delta f < 0$
$\Delta f > 0$
$\gamma_{2\to1} > \gamma_{1\to2}$
$\gamma_{2\to1} < \gamma_{1\to2}$
$\frac{1}{4}k_BT$
$E_{2\to1}$ $E_{1\to2}$
$f - f_0$
(a)
potential energy
$m_F = 2$
$m_F = 1$
$E_{1\to2}$
$\frac{1}{2}k_BT + E^0_{02}$
$\frac{1}{2}k_BT + E^0_{01}$
$E_{2\to1}$
$E_{1\to2}$
$E_{1\to2} - E_{2\to1} = \frac{1}{4}k_BT$
position
d_2
d_1