



$Q=60\text{nC}$ – datasheet
 $Q=100\text{nC}$ – 15v gate charge
 $V=15\text{v}$
 $t=1\mu\text{S}$ (transition time)
 $f=15\text{kHz}$
 $Q = I * T_{\text{transition}}$
 $I = Q / T_{\text{transition}}$
 $I = 0.0000001 / 0.000001$
 $I = 0.1\text{A}$
 $I = 100\text{mA}$
 $P_{\text{transition}} = V * Q / T_{\text{transition}}$
 $P_{\text{transition}} = 15 * 0.0000001 / 0.000001$
 $P_{\text{transition}} = 1.5\text{W}$
 $P = P_{\text{transition}} * T_{\text{transition}} * f$
 $P = 1.5 * 0.000001 * 15000$
 $P = 0.0225$
 $P = 22.5\text{mW}$