



switchmode calculator for mc34063P1(8) STEP UP

Vout 30.000 Ton/Toff 5.234042553
 V 0.600 Ton+Toff 0.0000125 12.500 0.839590444 Ton/Ton + Toff ratio
 Vin min 6.000 Toff 2.00512E-06 2.005119454 us
 Vsat 1.300 Ton 1.04949E-05 0.49488055 us
 Iout 0.008 C 4.19795E-10 0.419795222 nF timing capacitor
 Fmin 800000 Ipk(sw) 0.099744681 A
 Vrip pp 0.01 Rsc 3.007679181 3007.679181 mOhms current sense resistor
 Lmin 0.000494522 494.521995 uH main storage inductor value
 Co 7.55631E-05 75.56313993 uF Output capacitor

R1 10000 12k5 complies with 100uA minimum current
 R2 230000 230k complies with 100uA minimum current

Current sense 5mA < 1V, 0.1mA < 20mV (> Vio)

Vio 7mV

LP rolloff 10ms = 100Hz

Title		
Size B	Number	Revision
Date: 28-Jan-2011	Sheet of	
File: D:\personal Nov 2010\dc stimulator july 2010\dc stimulator.ddb		