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#
#   Saber netlist for design Flasher
#
#   Created by the Saber Integration Toolkit   5.0-3.2 of Analogy, Inc.
#
#   Created on Mon Jan 24 09:32:03 2000.
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#   Instances found in the top level of design Flasher
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#number      duty = 0.49999, # Must be less than 0.5
#            cap  = 0.72u,
#            freq = 1 #,
#            r1   = 1.44*duty/(freq*cap)
#            r2   = r1/((1/duty)-2)
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lm555c.U1 gnd:0 trig:TRIGGER out:OUT rst:VCC ctrl:CONTROL_VOLTAGE
thr:TRIGGER \
    dsch:DISCHARGE vcc:VCC
r.R1 p:DISCHARGE m:TRIGGER = ratings=ratings(r.R1)<-(pdmax_ja=62.5m),
rnom=1meg
r.R2 p:VCC m:DISCHARGE = ratings=ratings(r.R2)<-(pdmax_ja=62.5m),
rnom=1k
r.R3 p:VCC m:D1_P = rnom=220, ratings=ratings(r.R3)<-(pdmax_ja=0.5)
r.R4 p:VCC m:D2_P = rnom=220, ratings=ratings(r.R4)<-(pdmax_ja=0.5)
r.R5 p:D3_N m:0 = rnom=220, ratings=ratings(r.R5)<-(pdmax_ja=0.5)
r.R6 p:D4_N m:0 = rnom=220, ratings=ratings(r.R6)<-(pdmax_ja=0.5)
c.C1 p:TRIGGER m:0 = rleak=100meg, ratings=ratings(c.C1)<-(
(vmax=10,vrmax=10), \
    esr=1m, c=0.72u
c.C2 p:CONTROL_VOLTAGE m:0 = rleak=100meg, \
    ratings=ratings(c.C2)<-(vmax=50,vrmax=50), esr=1m, c=0.01u
v_dc.B1 p:BATTERY m:0 = dc_value=9
sw1_14.SW1 p:BATTERY m:VCC c:SWITCH
clock_14.clock_14_1 clock:SWITCH = td=1m
d.d1 p:D1_P n:OUT = rth_ja=260, \
    ratings=ratings(d.d1)<-(
(piv=5,iavg=25m,imax=500m,tjmax=110,tjmin=-55,pdmax_ja=135m), \
    part_class="green led", \
    model=model(d.d1)<-(is=10.0E-
21,rs=13.213,n=1.9116,cjo=18.0p,vj=0.75,m=0.3333,bv=8.0,ibv=10.0e-
6,tnom=25)
d.d2 p:D2_P n:OUT = rth_ja=260, \
    ratings=ratings(d.d2)<-
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(piv=5,iavg=25m,imax=500m,tjmax=110,tjmin=-55,pdmax_ja=135m), \
  part_class="green led", \
  model=model(d.d2)<-(is=10.0E-
21,rs=13.213,n=1.9116,cjo=18.0p,vj=0.75,m=0.3333,bv=8.0,ibv=10.0e-
6,tnom=25)
d.d3 p:OUT n:D3_N = rth_ja=260, \
  ratings=ratings(d.d3)<-
(piv=5,iavg=25m,imax=500m,tjmax=110,tjmin=-55,pdmax_ja=135m), \
  part_class="red led", \
  model=model(d.d3)<-(is=1.5185E-15,rs=17.759,n=2.2274,tt=5E-
9,cjo=11.0p,vj=0.75,m=0.3333,bv=8.0,ibv=10.0e-6,tnom=25)
d.d4 p:OUT n:D4_N = rth_ja=260, \
  ratings=ratings(d.d4)<-
(piv=5,iavg=25m,imax=500m,tjmax=110,tjmin=-55,pdmax_ja=135m), \
  part_class="red led", \
  model=model(d.d4)<-(is=1.5185E-15,rs=17.759,n=2.2274,tt=5E-
9,cjo=11.0p,vj=0.75,m=0.3333,bv=8.0,ibv=10.0e-6,tnom=25)
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