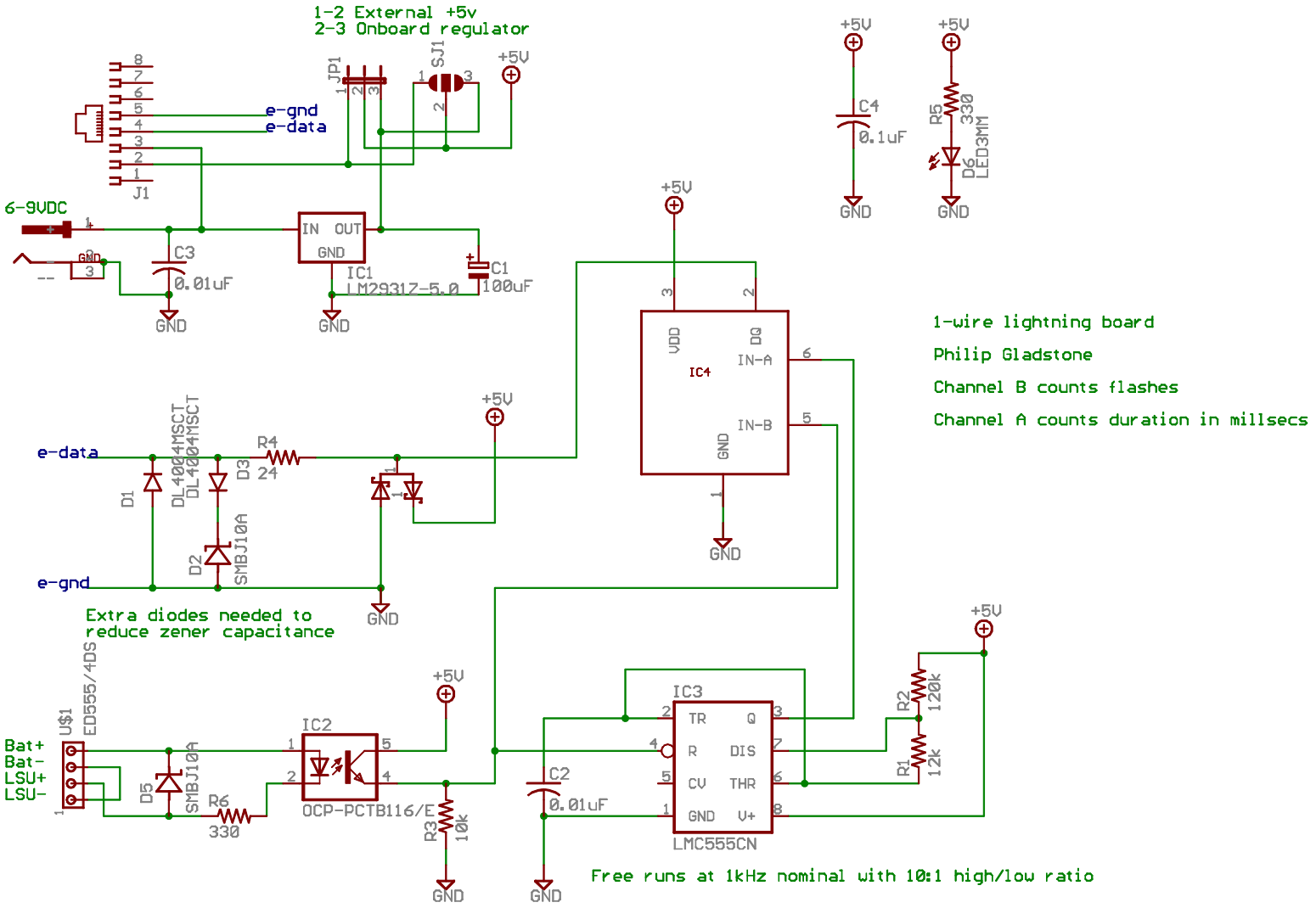
1-2 External +5v
2-3 Onboard regulator
JP1
SJ1
+5V
J1
e-gnd
e-data
6-9VDC
IN
OUT
GND
IC1
LM2931Z-5.0
C3
0.01uF
C1
100uF
C4
0.1uF
R5
330
D6
LED3MM
1-wire lightning board
Philip Gladstone
Channel B counts flashes
Channel A counts duration in millsecs
IC4
VDD
DQ
IN-A
IN-B
D1
DL4004MSCT
D2
SMBJ10A
D3
R4
24
Extra diodes needed to
reduce zener capacitance
U$1
ED555/4DS
Bat+
Bat-
LSU+
LSU-
D5
R6
330
IC2
OCP-PCTB116/E
R3
10k
C2
0.01uF
IC3
TR
Q
R
DIS
CV
THR
V+
LMC555CN
R2
120k
R1
12k
Free runs at 1kHz nominal with 10:1 high/low ratio