

MAX1856 15VIN to -200Vout @0.03A**Table 1: BILL OF MATERIALS**

DESIGNATION	QTY	DESCRIPTION
C1	1	100 μ F 250V electrolytic capacitor Sanyo 250MV100FAZ (2x in series)
C3,C4	2	10 μ F 25V X5R ceramic capacitor (1812) Taiyo Yuden TMK432BJ106KM
C6	2	10 pF 200V capacitor (through hole – connect 2 in parallell)
C8	1	1000pF 50V ceramic capacitor
C9	1	1 μ F X7R ceramic capacitor (1206) Taiyo Yuden TMK316BJ105KL
C10,C13	2	1000 pF, NP0 ceramic capacitors (0805) AVX 0805-5A-102-JAT-2A
C11	1	1 μ F, X7R ceramic capacitor (0805) Taiyo Yuden LMK212BJ105KG
C12	1	2.2 μ F, 10V ceramic capacitor (1206) MURATA GRM42-6X7R225K010AD
D2	1	8A, 600V Ultra-fast recovery diode International Rectifier HFA08TB60S
D1, D3	2	OPEN
N1	1	N-channel MOSFETs International Rectifier IRL2705
R2	1	500 Ω , 5% resistor (through hole)
R3	1	SHORT
R4	1	11 Ω , 5% resistor (0805/0603)
R5	1	10 Ω , 5% resistor (1206)
R6	1	0.033 Ω , 1% sense resistor (2010) DALE 0.5W
R7	1	100 Ω , 5% resistor (0805)
R8	1	100 k Ω , 1% resistor (0805)
R9	1	4.7 k Ω , 1% resistor (0805)
R10	1	750k Ω , 1% resistor (0805)
R11	1	OPEN
R12	1	100 k Ω , 5% resistor (0805)
T1	1	Coiltronics transformer custom wound
JU1	1	2-pin header
U1	1	MAX1856EUB (10 μ MAX)

